

# University of Toronto

## ERINDALE CAMPUS



### Faculty of Arts and Science

CALENDAR  
1972 - 1973



### **IMPORTANT NOTICES**

1. Students who have any problems of an academic or personal nature should consult their College Registrar.
2. The courses listed in this Calendar are those available to students of Erindale College and are subject to withdrawal or alteration without prior notice.
3. Fees, residence dues and other charges set forth in this Calendar are subject to change.

**Erindale College    University of Toronto    1972-1973**

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## **Important Academic Dates and Deadlines**

### **1972**

August 14-18	Supplemental Examinations.
August 30-September 9	Registration.
September 4	Labour Day (University Closed).
September 11	Classes begin. Late registration fee imposed.
October 6	Last day for changes in first term and full courses.
October 9	Thanksgiving Day (University Closed).
November 15	Last day to complete: —confirmation of program. —withdrawal from an extra first term (F) course without academic penalty.
December 8	First Term Classes end.
December 11-13	Term Test period.
December 14-20	Examination period for F courses.

### **1973**

January 2	Second term fees due.
January 8	Second term classes begin.
January 15	Late fees fine applied.
February 1	No second term course may be begun after this date.
February 11-18	Reading Week—No classes.
February 15	Last day to withdraw from an extra course, a second term course (S) or (Y) half course or from the University without academic penalty or for a Transfer to Extension.
April 13	Classes end. All term assignments should be completed by this date.
April 19-May 11	Annual Examinations.
April 20	Good Friday (University Closed).

## Administrative Staff

### **University of Toronto**

<i>Acting President</i>	J. H. Sword, M.A., LL.D.
<i>Acting Executive Vice-President and Provost</i>	D. F. Forster, B.A., A.M.
<i>Vice-President and Registrar</i>	R. Ross, M.B.E., M.A.
<i>Director of Admissions</i>	W. Kent, M.A.
<i>Chief Librarian</i>	R. H. Blackburn, M.A., B.L.S., M.S., LL.D.
<i>Acting Director of University Extension</i>	E. M. Gruetzner, B.A.
<i>Principal, University College</i>	A. C. H. Hallett, B.A., PH.D.
<i>Dean, Faculty of Arts &amp; Science</i>	A. D. Allen, B.SC., PH.D.
<i>Associate Dean</i>	Mrs. J. E. Foley, B.A., PH.D.
<i>Associate Dean</i>	G. A. B. Watson, M.A., S.T.D.
<i>Associate Dean</i>	W. T. Sharpe, M.A., PH.D.
<i>Associate Dean and Secretary</i>	W. D. Foulds, B.A.

### **Erindale College**

<i>Principal</i>	J. T. Wilson, S.M., O.B.E., PH.D., SC.D., LL.D., F.R.S.C., F.R.S.
<i>Dean</i>	E. A. Robinson, PH.D., D.SC.
<i>Associate Dean</i>	W. J. Huggett, M.A., PH.D.
<i>Associate Dean</i>	I. M. Spigel, M.A., PH.D.
<i>Associate Dean</i>	P. P. M. Meincke, B.SC., M.A., PH.D.
<i>Registrar</i>	J. J. Rae, M.A., PH.D.
<i>Associate Registrar</i>	L. J. Elmer, B.A., S.T.D.
<i>Dean of Students</i>	M. J. Lavelle, B.A., M.A.
<i>Librarian</i>	H. L. Smith, B.A., B.L.S.
<i>Comptroller</i>	T. Peckham, B.A., M.COMM.
<i>Administrative Officer</i>	R. S. Rawlings, B.A.
<i>Superintendent—Physical Plant</i>	A. O. Miller
<i>Director of Physical Education</i>	TBA
<i>Health Service</i>	E. G. Davies, M.D.
	R. P. Davis, M.D.
	G. W. Tisdall, M.D., D.PSYCH., C.R.C.P. (C)
	P. D. Wardle, M.D.
	V. Degutis, REG.N.

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## Erindale College 1972–1973 Faculty

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### ANTHROPOLOGY

Professor F. J. Melbye, B.A., M.A., PH.D.  
\*Professor A. Mohr, A.B., PH.D.  
Professor L. W. Reinhardt, B.F.A., M.A., PH.D.  
Professor L. L. Sample, A.B., PH.D.  
Professor B. A. Sigmon, B.A., M.S., PH.D.  
Professor R. Vanderburgh, B.A., M.A.

### ASTRONOMY

\*Professor J. R. Percy, M.SC., PH.D.  
\*Professor R. Racine, M.A., PH.D.

### BIOLOGY

#### *Botany*

Professor P. W. Ball, B.SC., PH.D.  
Professor W. J. S. Downton, B.SC., PH.D.  
Professor W. G. Fillion, M.SC., PH.D.  
Professor R. A. Frost, B.SC., A.R.C.S., PH.D.  
\*Professor P. F. Maycock, M.SC., PH.D.  
Professor P. V. Rangnekar, M.SC., PH.D.  
Professor G. R. Thaler, M.SC., PH.D.

#### *Microbiology*

\*Professor A. Guha, M.SC., PH.D.  
Professor J. Silver, B.S., PH.D.

#### *Zoology*

Professor W. T. Geiling, M.S., PH.D.  
Professor D. Gibo, B.A., PH.D.  
Professor G. Morris, B.S.A., M.A., PH.D.  
Professor D. O'Day, M.SC., PH.D.  
\*Professor P. J. Pointing, B.SC.F., PH.D.  
Professor B. I. Roots, B.SC., PH.D.  
Professor W. G. Sprules, B.SC., M.A., PH.D.  
Mr. R. Stephens, B.A.

### CHEMISTRY

Professor J. M. Deckers, L.SC., DR.SC.  
Mr. M. Moskovits, B.SC., PH.D.  
Professor G. A. Ozin, B.SC., D.PHIL.  
Professor A. J. Poë, PH.D., D.I.C., D.SC.  
Mrs. J. C. Poë, M.SC., A.R.C.S., D.I.C.  
Professor J. J. Rae, M.A., PH.D.  
Professor E. A. Robinson, PH.D., D.SC.  
\*Professor I. W. J. Still, B.SC., PH.D.  
Professor M. A. Winnik, B.A., PH.D.



## CLASSICS

Professor R. L. Beck, M.A., PH.D.  
 \*Professor T. G. Elliott, B.A., PH.D.  
 Professor C. I. Reid, B.A., PH.D.

## DRAMA

\*Mr. J. Astington, B.A., M.A.

## ECONOMICS

Professor W. T. Easterbrook, M.A., PH.D., LL.D., F.R.S.C.  
 Professor S. Eddie, B.S., PH.D.  
 Professor J. Floyd, B.COM., M.A., PH.D.  
 \*Professor M. J. Hare, B.COM., C.A.  
 Professor J. A. Hynes, A.B.  
 Professor A. M. Kruger, B.A., PH.D.  
 \*Professor H. E. McCandless, B.COM., C.A., M.B.A.  
 Professor G. F. McGuigan, M.A., SC., SOC.D.  
 Professor J. Pesando, B.A., M.A., PH.D.  
 Professor S. A. Rea, A.B., PH.D.

## ENGLISH

Professor T. H. Adamowski, M.A., PH.D.  
 Mr. J. Astington, B.A., M.A.  
 Professor B. Corman, A.M., PH.D.  
 Professor V. A. De Luca, M.A., PH.D.  
 Professor D. B. Hill, M.A., PH.D.  
 Mr. U. Kareda, B.A., M.A.  
 Professor D. I. Lancashire, M.A., PH.D.  
 Mr. M. Levene, B.A., M.A.  
 Mr. R. R. McLeod, A.B., M.A.  
 Professor R. Rower, M.A., PH.D.  
 Professor J. Skvorecky, PH.D.  
 \*Professor R. W. Van Fossen, M.A., PH.D.

## FINE ART

Mrs. L. Eleen, M.A.

## FRENCH

Mrs. G. Chesneau, L. ÈS L., C.A.P.E.S., D.E.S.  
 Professor C. Cloutier-Wojciechowska, L. ÈS L., D.E.S.,  
 D.DEL'U.  
 Mrs. M. Ducretet, L.P.H.L., AGREG.  
 Professor P. Findlay, M.A., PH.D.  
 Mrs. J. Le Gall, B.A., M.A.  
 Mrs. M. Raine, B.A., M.A.  
 Professor A. Stein, M.A., PH.D.  
 \*Professor D. A. Trott, M.A., PH.D.  
 Professor H. H. Weinberg, M.A., PH.D.

## GEOGRAPHY

\*Professor H. F. Andrews, B.A., M.SC., D.PHIL.  
 Mr. A. R. Byrne, B.A., M.A.  
 Professor G. Gracie, B.A.SC., PH.D.  
 \*Professor W. Harrison, S.B., S.M., PH.D.  
 Mr. T. F. McIlwraith, B.A., M.A.  
 Professor J. C. Munday, A.B., PH.D.  
 Professor D. F. Putnam, B.S.A., PH.D.

GEOLOGY AND  
GEOPHYSICS (Earth  
and Planetary  
Sciences)

Professor C. A. Burke (Geology), B.SC., PH.D.  
 Professor D. J. Dunlop (Physics), M.A., PH.D.  
 Professor R. M. Farquhar (Physics), M.A., PH.D.  
 Professor D. H. Gorman (Geology), B.SC., PH.D.  
 \*Mr. H. C. Halls (Physics), M.SC., PH.D.  
 \*Professor R. W. Macqueen (Geology), M.A., M.SC., PH.D.  
 Professor J. T. Wilson (Physics), S.M., O.B.E., PH.D.,  
 SC.D., LL.D., F.R.S.C., F.R.S.

## GERMAN

\*Professor W. Meyer-Erlach, B.A., PH.D.  
 Professor J. P. Payne, M.A.

## HISTORY

Mr. M. Dafoe, B.A., M.A.  
 \*Professor A. C. Gluck, B.A., M.A., PH.D.  
 Mr. R. E. Johnson, B.A.  
 Professor C. La Vigna, B.A., PH.D.  
 Professor D. P. Morton, M.A., PH.D.  
 Professor D. L. Raby, B.A., PH.D.  
 Professor W. B. White, A.B., M.S., PH.D.

## ITALIAN

Mrs. P. Marchese, B.A., M.A., PHIL.M.  
 Professor G. F. Mazzotta, B.A., M.A., PH.D.  
 \*Mr. L. McCormick, B.A., A.M.

## MATHEMATICS

Professor D. F. Andrews, M.SC., PH.D.  
 Professor T. Bloom, B.SC., M.A., PH.D.  
 Professor C. R. Crawford, M.A., PH.D.  
 Professor P. H. Fantham, M.A., D.PHIL.  
 Professor V. Jurdjevic, M.S., PH.D.  
 Professor W. Lakin, M.S., PH.D.  
 Professor J. E. LeBel, M.A., PH.D.  
 Professor M. Mather, B.A., PH.D.  
 Professor F. Tall, A.B., PH.D.  
 \*Professor S. M. Trott, B.SC., M.A., PH.D.

## MUSIC

\*Miss G. Jones, B.A., M.A.

## PHILOSOPHY

Professor J. V. Canfield, M.A., PH.D.

Professor C. E. Cassin, M.A., PH.D.

Professor C. H. Chastain, B.A., M.A.

\*Professor W. J. Huggett, M.A., PH.D.

Professor A. Rosenthal, M.A., PH.D.

Professor M. Schiller, B.A., PH.D.

Mr. A. I. F. Urquhart, M.A.

## PHYSICS

Professor R. F. Code, B.SC., A.M., PH.D.

Professor D. J. Dunlop, M.A., PH.D.

Professor R. M. Farquhar, M.A., PH.D.

Mr. H. C. Halls, M.SC., PH.D.

Professor P. P. M. Meincke, B.SC., M.A., PH.D.

Professor G. Stegeman, B.A.SC., M.SC., PH.D.

\*Professor H. W. Taylor, B.SC., M.SC., PH.D., F.INST.P.

Professor S. H. Vosko, B.ENG.PHYS., M.SC., PH.D.

Professor J. T. Wilson, S.M., O.B.E., PH.D., SC.D., LL.D.,

F.R.S.C., F.R.S.

Professor S. S. M. Wong, M.S., PH.D.

## POLITICAL SCIENCE

Mr. J. T. Agresto, A.B.

Professor J. Barros, M.I.A., PH.D.

Professor R. Blair, M.A.

Professor R. B. Day, M.A., PH.D.

Professor J. S. Dupré, A.M., PH.D.

Professor R. A. Fenn, B.A., M.SC., PH.D.

Mr. E. A. Goodman, B.A., Q.C.

Professor A. A. Kontos, M.A., PH.D.

\*Professor B. Kovrig, M.A., PH.D.

Professor S. A. Lakoff, M.A., PH.D.

Professor D. V. Smiley, M.ED., M.A., PH.D.

Professor J. E. Smith, A.B., PH.D.

## PSYCHOLOGY

Miss S. Abel, M.A., PH.D.

\*Professor T. M. Alloway, M.A., PH.D.

Mr. K. Blankstein, B.A., M.A.

Professor C. M. Corter, B.A., PH.D.

Professor F. I. M. Craik, B.SC., PH.D.

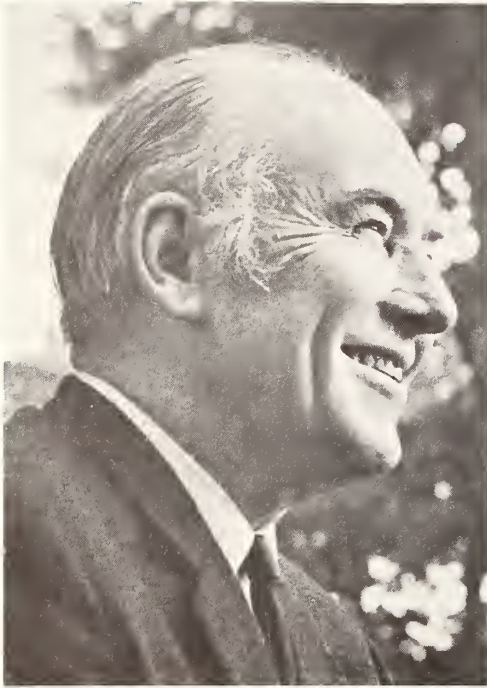
Professor L. Krames, M.A., PH.D.

Professor M. Moscovitch, B.SC., M.A.



	Professor P. Pliner, B.S., PH.D.
	Professor R. M. Rosenbaum, B.A., M.A.
	*Professor I. M. Spiegel, M.A., PH.D.
RELIGIOUS STUDIES	*Professor L. J. Elmer, B.A., S.T.B., S.T.D.
	Mr. M. Lavelle, B.A., M.A.
	Mr. L. Schmidt, B.A., M.A.
SLAVIC (Russian)	Mr. K. Lantz, B.A., M.A.
	*Professor N. Shneidman, M.P.H.E., M.A., PH.D.
SOCIOLOGY	Professor A. M. Bennett, M.A.
	Professor H. Breslauer, M.A., M.PHIL.
	*Professor W. Kalbach, M.A., PH.D.
	Professor J. B. Kervin, B.A.
	Professor P. Lorion, B.A., M.A.
	Mr. A. T. R. Powell, M.A.
	Professor M. Spencer, A.B., M.A., PH.D.
SPANISH	Professor O. Hegyi, M.A., PH.D.
	Professor E. G. Neglia, M.A., PH.D.
	*Professor M. Scarth, B.A., M.A.
	Professor J. Webster, M.A., PH.D.
ARTIST-IN- RESIDENCE	Mr. David Blackwood, B.A.
FILM-MAKER-IN- RESIDENCE	Mr. Noel J. Moore
MUSICIAN-IN- RESIDENCE	TBA
WRITER-IN- RESIDENCE	Mr. Martin Myers, B.A., M.A.

## Principal's Message



Erindale College provides a large and peaceful campus with a country atmosphere for nearly 2,000 students at the University of Toronto. Although only twenty miles west of the centre of Toronto, the college grounds include a handsome park, open fields and woods along the valley of the Credit River which provide a home for a variety of birds and wildlife. This is a happy environment for a college and particularly invites field studies in the natural sciences.

When the buildings now under construction have been completed the College will possess a full range of modern facilities including library, laboratories, a computer terminal, a bookstore, gymnasias, and a wide variety of the usual amenities. Forty students

are now living on the campus, but residences for nearly 300 have been authorized and should be open in 1973.

Many experimental courses are available, including an unstructured course, University 100, which allows freshmen freedom to explore their own special interests. An experimental course in Communications is also provided which makes use of computers, film and television. Courses in the History of Art are offered in conjunction with a studio course at Sheridan College. Courses in Surveying Science and remote sensing, unique in Ontario, are being offered together with other studies of the environment. An Artist-in-Residence, a Musician-in-Residence, a Writer-in-Residence, a Film-Maker-in-Residence and a Dramatist work informally with students and encourage them in these endeavours and in independent work.

Students, besides having their own organizations, social centre, newspaper and internal radio, take an active part in the Erindale College Council and some have been elected chairmen of committees. Last summer several groups on the campus successfully completed Opportunities for Youth Projects with government support. Because the number of students and staff on the campus is growing rapidly discussions are now in progress with the object of forming several separate colleges within the campus. The intention is to use these smaller units to preserve the cordial and easy exchanges between people which have so far marked life at Erindale.

## General Information

Erindale College, one of the eight Colleges that make up the Faculty of Arts & Science in the University of Toronto, opened in September 1967, as the western campus of the University of Toronto. The College offers the Arts and Science Programme of the University of Toronto and students may qualify for the B.A. or the B.Sc. in either a three or a four year programme. The admission regulations for all three campuses of the University of Toronto are the same.

Erindale College is located twenty miles west of the Toronto City Hall in the town of Mississauga. It may be reached by taking the Queen Elizabeth Highway, or Highway 5, or the Macdonald Cartier Freeway (401) to Mississauga Road. (See the map on back cover.)

A bus service is provided for staff and students between the College and the Islington-Bloor Subway Station, the Clarkson GO Station and the St. George campus (Convocation Hall).

Full-time day students wishing information about the College should address: The Registrar, Erindale College, Mississauga Road, Mississauga, Ontario; Tel. 828-5231 or 828-5331. (Area code 416.)

### **Counselling**

Every effort is made to provide students with both general and specialized counselling in all areas of personal concern, i.e. academic, medical, psychiatric, financial, placement and vocational.

The Office of the Registrar is the place for general counselling and advice on day to day queries or problems.

In areas where specialized assistance is needed the Registrar's Office will refer the student to the appropriate service. Prospective students are urged to obtain academic counselling, course selection assistance, etc. from the Registrar's Office during the summer months.

### **Library and Study Areas**

*housed in a new building.*  
Erindale College Library has an excellent and ever growing collection of books, periodicals, film strips, cassettes, clippings and other materials for student and staff use. In addition to this collection of some 100,000 volumes students and faculty have access to the more than two million volumes of the University of Toronto Library on the St. George campus. There is a regular book delivery service from the University of Toronto Library to the Erindale campus. (x)

*Not on the building*  
In addition the College Library has reading rooms and a number of study carrells supplied with audio-tape equipment. Numerous other study areas are located throughout the College buildings.

For the use of students in language courses there is a newly equipped language laboratory with some forty listening and recording booths.

### **Health Service**

In addition to a Registered Nurse in full-time attendance Doctors are on-campus for

(\*) *The staff is trained to help the student in the use of all library resources.*

*134,000 items*



extended periods of time daily providing medical and psychiatric assistance. These services are completely confidential and free of charge.

Students are not required to have a medical examination unless they are taking part in organized team sports. Chest X-rays and vaccinations are required for all new students. These services are provided by the Health Service at the beginning of term.

### **Government**

The principal governing body of the College is the Erindale College Council (E.C.C.) which consists of Faculty, Students, Administrative Personnel and Support Staff. The Students Administrative Government of Erindale (S.A.G.E.) organizes college functions and social activities and exercises considerable influence in the policy and planning of the College.

### **Athletics and Recreation**

The Erindale College Athletic and Recreational Association (E.C.A.R.A.) offers a great variety of athletic and recreational activities according to student interest. In addition to facilities, clubs, etc. on the College campus all full-time students have access to the use of St. George campus facilities and its athletic and recreational programmes. At present Erindale College has teams competing in the University of Toronto inter-faculty league and against other universities in various sports: basketball, ice hockey, lacrosse, soccer, volleyball, curling, field hockey, golf, judo, fencing, karate, tennis and sailing.

E.C.A.R.A. likewise organizes an extensive intramural programme of men's and women's sports and offers instruction in various recreational skills.

### **Student Housing**

**a) *On-Campus***—Limited housing on the Erindale College campus is provided by the Erindale College Housing Association. While large scale student residences are planned for the near future at present the Association provides five on-campus houses with accommodation for approximately 40 students. The houses are equipped with the basic furnishings, including cooking facilities. For those who prefer, meals are available in the College Cafeteria. The projected cost, not including meals or laundry, will be \$475.00 for the academic year 1972-73. For further information, write Erindale College Housing Association, 3359 Mississauga Road, Mississauga, Ontario.

**b) *Housing in the Mississauga Area***—A listing of accommodations with families in the Mississauga area, i.e. within a relatively short distance from Erindale College is available at the Housing Enquiry Office, Room 266, Erindale College.

The Erindale College bus routes cover part of the area. The cost of such housing varies depending upon facilities offered; room only, approximately \$15.00 per week; room and board, approximately \$20.00 per week.

**Student Activities**

The students at Erindale publish a paper called the *Erindalian* and operate a radio station called *Radio Erindale*. A serious literary magazine is published at intervals called *Impulse*. New students are encouraged to assist in the successful operation of the above projects. There are also Language Clubs and Interest Clubs (Camera Club, Chess Club, etc.) which are well supported by the students.

**Foreign Students**

The University of Toronto, International Centre (I.S.C.) is anxious to be of service to overseas students. Pre-departure advice, information on arrival, accommodation, cost of living, financial aid, employment, food, health requirements, insurance, etc. is readily available. Overseas students are encouraged to write: International Student Centre, 33 St. George Street, Toronto 5, Ontario, Canada.

## **Admission Requirements**

Full details of the University of Toronto undergraduate admission requirements for 1973 are contained in the Undergraduate Admission Handbook 1973-74 available on request from the Office of Admissions, University of Toronto, Toronto 181, and in all Ontario secondary schools. The 1972 requirements follow.

Admission requirements for all three campuses of the University of Toronto are the same.

The University of Toronto's entrance requirements, effective in 1972, are outlined on the pages following. Recently there have been significant curriculum developments in some secondary schools (individual timetabling, the credit system, etc.) and in consequence the University of Toronto has arranged for more flexible subject requirements. It should be emphasized, however, that students in schools which are organized on the more structured, traditional pattern may, if they wish, continue to plan their Grade 13 programmes as at present. In either case it is left to the school to determine what constitutes an appropriate Grade 13 programme.

For 1972 the University of Toronto is not publishing a list of acceptable subjects, but does give advice about subjects considered of major importance.

### **Basis of Admission**

Entrance to the First Year of the undergraduate courses is offered, depending upon the number of places available, to candidates from Ontario secondary schools who demonstrate good standing, based upon the following evidence:

1. Completion of secondary school studies, including a *full programme of academic work at the Grade 13 level*.
2. A recommendation by the secondary school last attended regarding fitness for University studies.
3. A complete academic report for the three final years of secondary school.
4. Results of standardized tests offered by the Service for Admission to College and University (S.A.C.U.).

### **Recommended Principles of Subject Selection**

1. Throughout the secondary school years students should study in as many of the following areas as possible: English, French and other languages, mathematics, sciences, social studies. Students should also consider carefully what aspects of their projected university work will entail prerequisite studies.
2. A full grade 13 programme should normally include work in a variety of subjects.
3. Subjects newly introduced into the grade 13 curriculum will be recognized by the University, which continues, however, to place a high value on previously recognized subjects involving study over a period of years and such subjects should normally constitute the major part of a grade 13 programme presented for admission.



4. Candidates are advised to include in their grade 13 programme at least two of: English, French or another language, mathematics, science.
5. Each faculty regards certain grade 13 subjects as necessary preparation and these are listed in Sections 4 and 5 of the Undergraduate Admissions Handbook 1972-73.

#### **Notes for Students**

1. No minimum mark or percentage is prescribed for admission to the University, but because of the pressure of applications and the nature of the University courses it is likely that a student will require a school average above 60% in order to be considered for selection.
2. The University of Toronto does not specify the minimum number of years to be spent in secondary school. If a school's organization permits certain students to complete their studies to the end of grade 13 in fewer than five years, applications will be welcomed from those students. The University does not accept applications from students at the end of their grade 12 work.
3. If a student takes more than five years to complete his studies to the end of grade 13, the University expects correspondingly higher standing: extenuating circumstances are considered if reported by the school.
4. Applications are considered from students whose credentials do not comply with the entrance requirements of the University, but, as fully qualified applicants outnumber the entrance places annually available, such students are expected to offer evidence of exceptional attainments to compensate for entrance deficiencies.
5. Candidates from educational jurisdictions outside Ontario should present a subject pattern which generally conforms with this announcement and in addition specifically prepares them for their own universities. They may improve their competitive position by taking the aptitude and applicable achievement tests offered by the Service for Admission to College and University or the aptitude test offered by the College Entrance Examination Board. For information they should write to the Service for Admission to College and University, 151 Slater St., Ottawa, Canada, or to the College Entrance Examination Board, Box 592, Princeton, New Jersey, 08540, U.S.A.

#### **Application Procedures**

Candidates currently in Ontario Grade 13 should apply through their high school using the General Application Form.

Other candidates should write to the Office of Admissions for a questionnaire which they will be invited to fill out for preliminary consideration.

#### **Final Date for Submitting Applications**

June 1. Only in circumstances which the Committee on Admissions deems

exceptional will a late application be considered. For further information, consult the current Undergraduate Admission Handbook.

### **Mature Students**

Students twenty-three years of age or over, residents of Ontario for at least one year, who have a sound academic record, will be considered for admission to the Faculty of Arts and Science as mature students upon completion with high standing of one of the Pre-University Courses offered by the Division of University Extension (or an equivalent course). Persons wishing to apply as mature candidates should consult the Office of Admissions about their eligibility before undertaking one of the Pre-University Courses described since successful completion of a Pre-University Course does not in itself ensure selection.

### **Admission to Advanced Standing**

An undergraduate of another university or of another faculty in this University may be admitted to advanced standing on such conditions as may be prescribed and must apply to the Office of Admissions before June 1. Advanced standing credit is awarded to students who at another university or faculty have taken work which is equivalent in content to work which would have been taken had they been enrolled in this Faculty. Each application is considered individually in terms of the student's previous record and the courses offered in the Faculty.

An applicant for admission to advanced standing must submit, with his application for admission, the Ontario Grade 13 certificate or equivalent; and an official transcript of his record in the university or faculty from which he wishes to transfer, showing the specific courses which he has completed with his standing in each.

### **Application for Admission and Registration**

Students currently in Grade XIII apply for admission to the University of Toronto on *Application Forms* provided by the Secondary Schools (High Schools). A *Supplementary Application Form* is then sent on which the student indicates his choice of college. If the application is accepted a *Letter of Admission* is sent to the student. When this is received the student should bring it as soon as convenient to the Registrar's Office at the college indicated on his letter of admission, at which time a *Choice of Courses Form* is filled out. The final step in Registration is payment of fees (see Fees). On presenting the *Fees Receipt* at the Registrar's Office a *Student Identification Card* will be issued. This completes registration and may be done anytime up to September 9th. To avoid line-ups and long delays the student is urged to complete all aspects of registration considerably before this date.

Students not currently in Grade XIII fill out application forms provided by the *Office of Admissions*. These must be returned to the Office of Admissions before June 1st. The subsequent procedures are the same as those described above.

Students who wish to be granted credit for courses taken at other Universities (Advanced Standing) should indicate this clearly on their application forms.

## Combined Art Education Programme

Erindale students enrolled in a three-year degree programme at the University of Toronto and concurrently enrolled in the three year Art Education Programme at Sheridan College may receive the equivalent of five credits for art work taken at Sheridan College. Such students would be proceeding toward both a University of Toronto degree and a Certificate of Art Education at Sheridan College.

The five credits of work from Sheridan College may be applied in the following manner:

1st year—1½ credits—12 hours per week

2nd year—1½ credits—12 hours per week

3rd year—2 credits—16 hours per week

Thus a student in first year can take 3½ credits at Erindale and receive 1½ credits for art work at Sheridan and thereby have a completed first year.

The work completed at Sheridan College will be accredited under the following course abbreviations and titles:

FAR 136E Techniques of Drawing, Painting, Design and Animation

FAR 137EY Techniques of Photography

FAR 236E Drawing, Painting, Design and Printmaking

FAR 237EY Film Media

FAR 336E Ceramic, Metal and Jewelry Studies

FAR 338E Furniture and Fabric Studies

## Schedule of Fees

### **Fees**

Prior to registration each student newly admitted to the Faculty and each returning student will be sent a fees form and a schedule of fees stating the academic and incidental fees required, the date due, and the method of payment. Fees vary slightly by college and from year to year, and are subject to change by the Governing Council. The approximate cost for a student in Arts and Science is \$550 annually for tuition and incidental fees such as student organizations, athletic, and health services. Residence fees are separate and generally approximate \$1000 per year for room and board.

For further information concerning fees, students should contact the Fees Department, Office of the Comptroller, 215 Huron Street, Second Floor, University of Toronto, Toronto 181. (Telephone 928-2142) Students of the federated colleges (Victoria, Trinity, St. Michael's) should contact their college bursar. Information regarding residences will be sent on request to the residence concerned or to the Office of the Director of Administrative Services, Simcoe Hall, University of Toronto.

Each Special Student enrolled in the Faculty of Arts and Science is required to pay fees at the office of the Comptroller, St. George campus, according to a schedule to be set.

### **Application Fee**

Each applicant who is not in full-time attendance at a Canadian secondary school or who has not previously registered at this University is required to pay an application fee of ten dollars (\$10) when submitting his application form to the Office of Admissions, Simcoe Hall, University of Toronto.

### **Transcripts**

Transcripts of academic record are furnished by the Faculty Office on payment of a fee of one dollar (\$1) each. For each additional copy ordered at the same time, the fee is fifty cents (50¢).

### **Other Fees**

#### **Study Elsewhere**

Each student authorized to participate in the Study Elsewhere programme must pay a fee of one hundred dollars (\$100) to the Comptroller and present his receipt to his College Registrar prior to departure.

#### **Outside Centre Fee**

Each student who applies to write an examination outside Toronto must submit with his application a fee of ten dollars (\$10) plus five dollars (\$5) for each additional paper to be written at the same outside centre.

#### **Special Examination Fee**

Each student who is granted permission to write a special examination must pay to the Comptroller a fee of ten dollars (\$10).



### **Supplemental Examination Fee**

Each student who is permitted to write a supplemental examination must pay at the time of his application a fee of ten dollars (\$10) for one paper plus five dollars (\$5) for each additional paper.

### **Fee for Re-checking Marks**

A student who requests that his marks be re-checked must submit with his petition a fee of five dollars (\$5), which will be refunded if an error is found.

### **Penalties**

Students are urged to consult frequently the Schedule of Dates printed at the beginning of this Calendar as this sets forth the dates by which certain administrative action is required or penalties may be incurred. These charges are as follows:

#### **Paying by Instalments**

Each student who pays his fees in two instalments (September and January) must pay an instalment charge of twelve dollars (\$12).

#### **Late Registration Fee**

Each student who registers after the last date for normal registration must pay a late registration fee as follows:

- If registering within 7 calendar days — \$10
- If registering after 7 calendar days — \$20.

#### **Late Confirmation of Programme**

A student who fails to confirm his academic programme in person with his College Registrar in November by the date appointed must pay a late fee as follows:

- If confirming within 7 calendar days — \$10
- If confirming after 7 calendar days — \$20.

#### **Late Payment of Second Instalment**

A student who pays the balance of his fees after the Second Instalment is due incurs a penalty of fifteen dollars (\$15).

### **Outstanding Fees and Charges**

Students who have not paid their fees or residence dues in full or who have outstanding library dues or bookstore accounts by the end of the session will not be permitted further registration in the University, will not have transcripts issued on their behalf, and will not receive their diploma (if in their graduating year) until payment is made.

### **Deductions from Fees**

- 1) *Scholarships*: A student may apply to his fees any scholarship awarded by the University of Toronto or by Erindale College.
- 2) *Ontario Student Awards (OSAP)*: A student may use the loan portion of his

OSAP award to pay his first term fees. To do this he must produce his Student Award Statement and enclose it with his fees form. Students who have not made early application for OSAP and have not received the result of their application will be required to pay cash.

*Payment of the Second Instalment of Fees by OSAP Grant Cheque:* Students will not be fined for late payment of fees if the delay in payment is due to the late arrival of the Grant cheque. However, if the Grant is *less* than the second term fees, then the student must pay the difference.

## **Scholarships and Financial Assistance**

Various types of financial aid offered to full time students:

*Scholarships or Prizes:* Awarded for academic excellence without reference to financial need.

*Bursaries:* Awarded to students who demonstrate both good academic standing and financial need.

*Interest-free Loans:* Provided to students who have financial need. Loans are repayable according to definite loan agreements.

Erindale College students, as members of the University of Toronto, are eligible for awards offered by the Province of Ontario, the University of Toronto, and Erindale College.

### **Costs of University Education**

In the year 1971–72, total cost to first year students (for the 8-month academic session only) varied from \$2,000 to \$2,500 for students living in a university residence or away from home, and from \$1,300 to \$1,500 for students living at home in the Toronto area. The total amount includes fees and an allowance of approximately \$500 for miscellaneous expenses such as books, supplies, laundry, cleaning, clothing and transportation.

### **Ontario Student Awards Programme**

The Ontario Student Awards Programme (OSAP) should be regarded as the primary source of financial assistance for needy Ontario students. Other assistance such as bursary assistance is available only in small amounts to students who do not qualify for Ontario Student Awards or who have received OSAP assistance which is insufficient to meet their needs.

OSAP is intended to supplement rather than replace private resources. In order to determine the additional funds required, the Province assesses the resources of the family and/or the student. An Ontario Student Award is part loan (interest-free until six months after leaving the university) and part non-repayable grant. In 1971–72, awards have ranged from as little as \$50 to as much as \$2,000 depending upon assessed need. A description of the regulations is contained in a brochure available early in May, 1972 from the Registrar's Office or the Student Aid Office, Erindale College.

Application forms may be obtained early in May, 1972 from the Office of Student Awards, Simcoe Hall, University of Toronto or the Registrar's Office, Erindale College. They must be returned to the Office of Student Awards, Simcoe Hall, University of Toronto, *preferably in person. Students are urged to apply early in the summer.* Late applicants may have to wait more than two months for assessment of their applications and receipt of their awards. For the final date of application, please see the 1972–73 OSAP Brochure.

### **Canada Student Loans Plan**

Full details of this Plan are available in a brochure issued each spring by the Government of Canada. Basically the Plan is designed for those students who have resided in Canada for twelve months and demonstrate financial need, but who do not qualify for assistance under the Ontario Student Awards Programme. Effective 1972, the maximum Canada Student Loan will be \$1,400 per academic year. The application form for the Ontario Student Awards Programme is also used for the Canada Student Loans Plan.

Application forms and brochures are available from the University of Toronto, Office of Student Awards, and should be submitted, preferably in person, to the Office of Student Awards, Simcoe Hall.

Students who intend to study outside Ontario or abroad should apply through the Department of Colleges and Universities, Mowat Block, Queen's Park, Toronto, Ontario.

Students who in Third Year intend to register at the University of Toronto and to study elsewhere should apply to the Office of Student Awards, Simcoe Hall, University of Toronto.

## **ADMISSION SCHOLARSHIPS**

### **1) University of Toronto Admission Scholarships**

Students entering the first year at Erindale College who have achieved high academic standing at their high schools are eligible for a large number of scholarships awarded by the Senate of the University of Toronto. The scholarships are listed in the booklet, *University of Toronto Admission Awards, 1972-73*, available at any Ontario high school.

Application forms available: High School Principal or Guidance Officer; deadline April 21, 1972.

### **2) Erindale College Admission Scholarships**

Students entering the first year at Erindale College who have achieved high academic standing at their high schools are eligible for the following scholarships awarded by the Council of Erindale College. Apply on the University of Toronto Admission Scholarship application form available at your High School.

#### **Erindale College Special Admission Scholarships**

Awarded from funds allocated by the Senate of the University of Toronto. The number, value and terms of award for these scholarships will be determined by the Erindale College Council.

Application forms available: High School Principal or Guidance Officer; deadline April 21, 1972.



### **Erindale College Varsity Fund Admission Scholarships**

Three admission scholarships awarded annually. Value: \$350.

Application forms available: High School Principal or Guidance Officer; deadline April 21, 1972.

### **Erindale-Cooksville Lions' Centennial Awards**

Awarded annually to students entering first year from the geographical area served by the Club. Two awards—Value: \$150 each.

Application forms available: High School Principal or Guidance Officer; deadline April 21, 1972.

### **Oakville University Women's Club Award**

Awarded annually to a female graduate of an Oakville Secondary School. Value: \$200 (may be subdivided).

Application forms available: High School Principal or Guidance Officer; deadline April 21, 1972.

## **IN-COURSE SCHOLARSHIPS AND AWARDS**

### **1) University of Toronto Scholarships**

Students in second, third or fourth year who achieved high academic standing (Grade A) in the preceding year are eligible to apply.

Application forms available: Erindale College Student Aid Office after registration; deadline October 16, 1972.

### **2) Erindale College Scholarships**

Students who achieve high academic standing in either first, second or third year and who will be enrolling in the next year at Erindale College are eligible. All students who achieve high standing will be considered automatically. Application not required.

### **The Governor General's Silver Medal**

Awarded each year to the graduating student with the highest marks.

Application not required.

### **Varsity Fund In-Course Scholarships**

Three are awarded in each of the second, third and fourth years.

Value: \$500. Application not required.

### **Mississauga University Women's Club Book Prize**

Awarded to the woman student enrolled in the first year who obtains the highest standing in the final examinations of that year.

Value: \$50. Application not required.

### **Progressive Conservative Women's Association (Peel South) Award**

Awarded to a student entering third year who is specializing in Political Science.

Value: \$200. Application not required.

### **The Mrs. Lois Spigel Book Prize**

Gift of Dean I. M. Spigel, in memory of Mrs. Lois Spigel, awarded to a student in second, third or fourth year who is specializing in Social Sciences.

Value: \$50. Application not required.

### **Prize in Hellenistic History**

Gift of the Chreston-Macedonian Foundation, awarded to the student with highest standing in a second year Greek and Roman History course.

Value: \$150. Application not required.

### **Prize in Italian**

Gift of the Italian Club of Erindale College (1971), awarded to the student who achieves the highest standing in the Introduction to Italian Literature Course and who enrolls in at least two full courses, or their equivalent, in Italian at Erindale College.

Value: \$50. Application not required.

### **Prize in Slavic Literature**

Gift of the Chreston-Macedonian Foundation, awarded to the student having the highest standing in a course or courses in Slavic literature.

Value: \$150. Application not required.

### **The J. R. Webster Prize in Spanish**

Gift of Professor J. R. Webster, awarded to a student who having completed Spanish 100 at Erindale College achieves the highest standing in his second year in the Spanish Intermediate Grammar and Composition Course, and who intends to specialize in Peninsular Spanish in Third Year.

Value: \$100. Application not required.

### **I.O.D.E. Patricia Nodwell Award**

Gift of the Imperial Order Daughters of the Empire, Windsor Rose Chapter, in memory of Mrs. Patricia Nodwell, awarded to a student in second, third or fourth year who has taken in the preceding year and is taking in the current year, courses in any two of the following subjects: English, History, Philosophy, or Psychology. The candidate must have obtained at least a Grade B standing in the previous year's work. Financial need may be a consideration.

Value: \$150.

Application forms available: Erindale College Student Aid Office after registration; deadline October 16, 1972.

### **Erindale College Special Scholarships**

Awarded to students in second, third or fourth year who achieved high academic

standing in the preceding year at Erindale College. The number and value of the scholarships will be determined by the Erindale College Council.  
Application not required.

### **3) Other Scholarships and Prizes**

Many other scholarships and prizes from a variety of sources are available to Erindale College students. Details of these are displayed on the Notice Board outside the Student Aid Office.

## **BURSARIES**

### **1) University of Toronto In-Course Bursaries**

Students in second, third or fourth year who are in financial need and who have achieved a good academic record (at least B) in the preceding year are eligible to apply.

Application forms available: Erindale College Student Aid Office after registration; deadline October 16, 1972.

### **2) Erindale College Bursaries**

#### **Mississauga University Women's Club Award**

Awarded to a mature woman student enrolled in any year, whose studies have been interrupted and who has financial need.

Value: \$300 (May be sub-divided)

Application forms available: Erindale College Student Aid Office after registration; deadline October 16, 1972.

#### **Chreston-Macedonian Bursaries**

Gifts of Mr. C. S. Chreston, awarded to students in real financial need who are making satisfactory academic progress.

Value: \$150.

Application forms available: Erindale College Student Aid Office; deadline January 16, 1973.

## **EMERGENCY LOANS**

The Students' Administrative Government of Erindale (SAGE) administers an Emergency Loan Fund. Loans are for students who are unable to receive assistance from any other source and who need funds in order to continue their studies. The loans are short-term and repayable according to a definite loan contract.

Application forms available: Office of the President of SAGE.

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## Courses, Subjects and Academic Programmes

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A SUBJECT is a particular discipline such as *English, Chemistry, Philosophy* or *Psychology*. A COURSE is a unit in the academic programme such as *Chemistry 120E* (CHM 120E), *History 100* (HIS 100) or *Sociology 101* (SOC 101). The word PROGRAMME refers *either* to the collection of courses taken by the individual student *or* to a particular group of courses that constitute a *Specialist Programme*.

The University of Toronto, Faculty of Arts and Science, St. George Campus Calendar should be referred to for details of the Rules and Regulations of the Faculty. Questions concerning the content and scope of particular courses or subjects, and the requirements for *Specialization* should be made to the relevant *Faculty Advisers* or to the College Registrar.

No attempt is made in the Arts and Science Faculty to distinguish between Honour and General Courses. These terms are no longer used in the University of Toronto.

A student entering the Faculty of Arts and Science has a free choice from among all the courses offered to first year students. Thus he does not need to make an irreversible decision to be in *Arts* or *Science* or to follow a three or a four year course of study. These difficult decisions can now be made at various points of a student's progress through the University in terms of new and developing interests and levels of achievement.

A three-year (15 course) programme, or a four-year (20 course) programme can be made up of courses selected in terms of a wide breadth of interest or relatively narrow interest according to the student's choice. Particular combinations of courses are designated as *Specialist Programmes*. Required courses for a particular specialization are laid down by specific disciplines whose faculty advisers should be consulted for further information. A student is allowed to fulfill the requirements for specialization in *one* or *two* subjects.

It should be noted that the flexibility of choice now available to students does not prevent a student with definite aims and developed interests from following them from the start. It is hoped that even students with determined ideas will take the opportunity offered to explore unfamiliar areas of knowledge.

All new students are urged to seek advice from the Registrar or a Faculty Adviser before final selection of a programme of studies.

### Availability of Courses to Other Years

"100 series" courses are available to students in all years. No more than a total of seven can be taken in a three-year programme.

Certain "200 series" and "300 series" courses are available to first year students. Such courses are designated by the Roman numeral I, which appears below the course number. It is inadvisable for a student in first year to take more than *one* such course.

If a student anticipates the possibility of *Specialization* in a particular area in his higher years he should select at least one course in this subject in his first year.

In years other than the first students may wish to choose programmes which will allow them to specialize in a particular discipline; they may combine two areas



(e.g. Sociology and Psychology) or they may select a set of courses that will allow them to generalize in an area, e.g. science, humanities or social sciences. Students are urged to consult Faculty Advisers who can advise them concerning courses that would best fit their aims and which related courses they should take.

### **Groups of Related Courses**

In addition to specializing in a traditional academic discipline students may be interested in choosing a range of courses which cross the boundaries of specific disciplines. Many such AREA STUDIES can be designed such as Drama, Renaissance, British Studies, Eastern European Studies, Canadian Studies, American Studies, Urban Studies, International Relations, Communications, Religion. Students are advised to consult with an academic adviser who could help the student to choose the most suitable courses for the area he chooses.

In the Biology section there is a collection of related Life Science courses and in the Geography section there is a similar collection of related courses.

For example a student interested in CANADIAN STUDIES should consider choosing such courses as ANT 241E, ANT 301E, ECO 221, ENG 152, ENG 356, FRE 330, GGR 351E, GGR 361E, HIS 205E, HIS 301E, HIS 307E, POL 100, POL 411, POL 430, SOC 203. A student interested in INTERNATIONAL RELATIONS should consider choosing such courses as ECO 228E, ECO 328, GGR 336ES, HIS 303E, PHL 205F, POL 306, POL 327, POL 325, POL 415. The variety of such area studies is almost limitless.

## **PROFESSIONAL FACULTIES AND COLLEGE OF EDUCATION**

Students enrolled at Erindale College may satisfy the entrance requirements to the College of Education, Teacher's College and other Professional Faculties of the University.

### **College of Education**

For Type A certification the requirements are a B.A. or B.Sc. from an Ontario University in a four year programme with a minimum of twenty full courses.

For one specialist field the student requires B standing in nine courses; for double specialization the student requires B standing with no fewer than six courses in each and a total of fourteen courses in both fields of specialization.

For further information students should write to the Registrar of the College of Education, Toronto.

### **Teacher's Colleges**

For admission to Teacher's College a full first year (five credits) in an academic course is required.

### **Medicine**

Students at Erindale College may qualify for entry to the Faculty of Medicine (and other Medical Schools). For the University of Toronto Faculty of Medicine entry is possible after two years, or after completion of a three or four year degree. The minimum requirements are given below and students are warned that competition for places is acute and therefore they should select a programme of studies in first and second year that leads to as many future opportunities as possible.

Two years with high standing required for selection. Courses should include: CHM 120E, PHY 110, BIO 100E, MAT 135 or MAT 110EF/S and MAT 120ES/F, and one optional course. In Second Year, STA 232, CHM 240EF and CHM 230ES (CHM 270EF and CHM 245ES are also recommended for those with interest in Biology and Chemistry) should be taken.

### **Rehabilitation Medicine**

For entry into Rehabilitation Medicine (Physical and Occupational Therapy) two sciences are required, one of which must be Biology; two social sciences, one of which must be Psychology and one other option must be chosen in the First Year.

### **Dentistry**

For entry to the Faculty of Dentistry completion of one year is required. High standing is important for selection. Courses taken should include: CHM 120E, PHY 110, BIO 100E and two additional courses one of which must be Mathematics.

### **Pharmacy**

For entry to the Faculty of Pharmacy completion of one year is required with high standing needed for selection. Courses taken should include: CHM 120E, PHY 110, BIO 100E, MAT 110EF/S and MAT 120ES/F.

Students normally enter Second Year Pharmacy with advanced standing but may be required to accept as a condition a first year Pharmacy course.

### **Law**

A minimum of two years with high standing is required for selection. No courses are prescribed but emphasis should be placed on subjects such as Economics, Political Science, History, Philosophy and Psychology.

### **Time-Tables**

Time tables will be ready well in advance of Registration and will be mailed to all students who have accepted offers of admission or registered by mail.

### **Admission to Courses on the St. George Campus**

Students in first, second and third years may take a maximum of *two* courses in any given year on the St. George campus, provided the following conditions are met:

- 1) The courses chosen or their equivalents are *not* offered at Erindale College.
- 2) Satisfactory time-table arrangements can be made.
- 3) The department on the St. George campus has indicated its willingness to accept the student.
- 4) Written approval of the Faculty Adviser at Erindale has been obtained.

Students in fourth year may take as many courses on the St. George Campus as they choose. A student in a four-year programme who wishes to study elsewhere in his third year should consult with the professor in his field of specialization. This applies particularly to Modern Languages.

*The courses listed in this calendar are subject to revision or withdrawal if necessary.*

*Several courses have been given new numbers. A student may not enrol in and get credit for the same course twice, even if it has a different number.*

*Any two half courses may be combined to form a full course credit.*

## **Extension Courses Offered at Erindale College**

A large variety of courses is offered in the Division of University Extension at Erindale College in the Summer Evening Session, the Summer Day Session and the Winter Session. Students are required to apply for admission to the Director of Admissions, University of Toronto. Students in the Division of University Extension should get a copy of the booklet "Degree Programmes in Extension" which contains the rules and regulations governing part-time students.

### **Counselling**

The Registrar's Office and faculty members at Erindale are prepared at any time to counsel part-time students. There is also a full-time counselling service available at the Extension Office. The courses that are planned to be offered at Erindale are listed below.

### **Fees**

The academic fee for each full course is \$95.00 and \$47.50 for each half course. In addition there are small additional fees charged by the Part-Time Student's Association.

### **Programme for Summer Evening Session 1972 — Erindale**

<i>Course</i>	<i>Title</i>	<i>Instructor</i>	<i>Room</i>	<i>Day</i>
ECO 100	Intro. to Economics	F. B. Mayer	239	M&W
ENG 218	Major American Authors	T. H. Adamowski	282	T&R
GGR 241E	An Intro. to Urban Geography	H. Andrews	239A	T&R
HIS 200E	The United States 1607-1968	S. J. Randall	269	M&W
PHL 100	Inro. to Philosophy	W. J. Huggett	241	M&W
POL 100	Intro. to Canadian Politics	TBA	285	T&R
PSY 100	Introductory Psychology	J. Seggie	245	M&W
REL 303	Christian Origins	D. Belyea	279	M&W
SOC 101	Intro. to Sociology	M. H. Cooper	287	T&R

**Note:** All Summer Evening classes meet twice weekly for 2½-hour sessions from May 15th to August 11th. Classes begin at 7:00 p.m.

R = Thursday

Apr. 1 Last day for applications—New students

May 1 Last day for registration

May 15 Lectures and labs begin

Aug. 11 Last day of classes

Aug. 14-18 Examinations



**Programme for Summer Day Session 1972 — Erindale**

<i>Course</i>	<i>Title</i>	<i>Instructor</i>	<i>Room</i>	<i>Time</i>
ANT 100E	Intro. to Anthropology	F. J. Melbye	239AP	9-11 a.m.
ECO 200	Micro-Economic Theory	TBA	270P	11:30 a.m.-1:30 p.m.
ENG 152	Canadian Literature in English	G. A. MacDonald	269P	11:30 a.m.-1:30 p.m.
GGR 241E	An Intro. to Urban Geography	TBA	239P	9-11 a.m.
GGR 491E	B.A. Thesis	Staff	—	—
MAT 110EF	Introductory Calculus	J. E. LeBel	2056M	11:30 a.m.-1:30 p.m.
MAT 120ES	Finite Mathematics	J. E. LeBel	2056M	11:30 a.m.-1:30 p.m.
PHL 200S	Reason and Morality	W. R. C. Harvey	241P	9-11 a.m.
PHL 205F	Contemporary Social Issues	W. R. C. Harvey	241P	9-11 a.m.
POL 200	History of Political Thought	J. T. Agresto	1076M	9-11 a.m.
PSY 100	Introductory Psychology	I. M. Spiegel	292P	9-11 a.m.
PSY 213ES	Comparative Psychology	L. Krames	1092M	9-11 a.m.
PSY 214EF/S	Human Learning and Memory	F. I. Craik	1087M	9-11 a.m.
PSY 218EF	Classical & Instrumental Conditioning	T. M. Alloway	1096M	11:30 a.m.-1:30 p.m.
PSY 368EF	Child Psychology	C. Corter	1074M	11:30 a.m.-1:30 p.m.
REL 250EF	Teilhard de Chardin: His Impact on Modern Man	L. J. Elmer	287P	11:30 a.m.-1:30 p.m.
REL 302ES	Architects of Modern Religious Thought	M. Lavelle	287P	11:30 a.m.-1:30 p.m.
SOC 212E	Sociology of the Family	TBA	245P	11:30 a.m.-1:30 p.m.

**Note:** All Summer Day classes meet for 2-hour sessions, 5 days weekly for 6 weeks from July 4th to August 11th.

M—Main Building

P—Preliminary Building

May 15 Last day for application—New students

June 18 Last day for registration

July 4 Lectures and labs begin

July 21 Last day for "F" half courses

Aug. 11 Last day of classes

Aug. 14-18 Examinations

**Programme for Winter Evening Session, 1972-73 Academic Year — Erindale**

<i>Course</i>	<i>Title</i>	<i>Evening</i>	<i>Instructor</i>
ANT 100E	Intro. to nAthropology	Thurs.	TBA
ANT 204E	Social & Political Organization	Tues.	TBA
ANT 233E	Intro. to Physical Anthropology	Mon.	F. J. Melbye
BIO 100E	The Study of Life	Wed.	P. V. Rangnekar
COM 100	Financial Accounting	Mon.	H. E. McCandless
ECO 100	Introduction to Economics	Thurs.	M. J. Hare
ECO 200	Micro-Economic Theory	Thurs.	J. E. Floyd
ENG 108	Forms of 20th Century Lit.	Wed.	D. I. Lancashire
ENG 212	Shakespeare	Thurs.	J. Astington
*ENG 354	Canadian Poetry	TBA	TBA
FRE 120	Intro. to University French Studies	Mon.	TBA
GGR 131E	Intro. to Man's Use of the Environment	Thurs.	R. Putnam
GGR 341E	Urban Systems Workshop	Thurs.	H. Andrews
HIS 100E	Europe & the World, 1789-1969	Tues.	TBA
HIS 205E	Canada 1663-1967	Thurs.	D. Morton
ITA 100	Beginning Italian	TBA	TBA
MAT 110ES	Introductory Calculus	Mon.	S. M. Trott
MAT 120EF	Finite Mathematics	Mon.	J. E. LeBel
PHL 100	Introduction to Philosophy	Wed.	W. J. Huggett
PHL 204S	Literature and Philosophy	Thurs.	W. R. C. Harvey
PHL 220F	Belief, Knowledge & Truth	Thurs.	A. I. Urquhart
*PHL 261S	Philosophy of Religion	TBA	J. V. Canfield
*PHL 270F	Miracles, Mysticism & the Occult	TBA	J. V. Canfield
POL 208	International Relations	Thurs.	B. Kovrig
POL 327	Comparative Foreign Policy	Wed.	R. Gregor
PSY 100	Introductory Psychology	Thurs.	F. I. Craik (fall) T. M. Alloway (spring)
PSY 208EF	Sensory & Perceptual Processes	Tues.	I. M. Spigel
PSY 214S	Human Learning & Memory	Thurs.	F. I. Craik
PSY 216ES	Experimental Design & Theory	Tues.	I. M. Spigel
PSY 218EF	Classical & Instrumental Conditioning	Mon.	T. M. Alloway
PSY 326ES	Abnormal Psychology	Mon.	K. R. Blankstein
PSY 368EF	Child Psychology	Wed.	C. Corter
PSY 368ES	Child Psychology	Wed.	C. Corter
REL 100	Religious Traditions, East and West	Mon.	TBA
REL 230E	The Roles of Religion in Human Development	Mon.	L. J. Elmer
SOC 101	Introduction to Sociology	Mon.	TBA
SOC 208E	Sociology of Deviance	Mon.	TBA
SOC 212E	Sociology of the Family	Wed.	TBA
*SOC 313E	Sociological Theory	TBA	TBA
*SOC 316E	Comparative Eiltes	TBA	A. Bennett
SPA 100	Beginning Spanish	TBA	TBA

\*The asterisked courses are day courses which will be held in the evening.

Classes meet once a week for the academic year from 7:30-9:30 p.m.

Dates for these courses correspond to those for the academic session 1972-73 as shown in this Calendar. The last day for registration is August 1, 1972.

## **Registration and Enrolment**

Every student in full-time attendance proceeding to a degree in the Faculty of Arts and Science is required to register in one of University College, Victoria College, Trinity College, St. Michael's College, New College, Innis College, Scarborough College, Erindale College. Unless proceeding towards a degree in the Division of University Extension. Information regarding the relation of the Colleges to the University will be found under the heading "The Faculty of Arts and Science and Its Colleges."

Registration information will be mailed to each student early in the summer. A student registers for his programme of studies in the Faculty of Arts and Science through the Registrar of his College. A full-time Special Student registers through the Associate Secretary of the Faculty.

A student seeking detailed information about a specific course, or programme of studies, should consult the Adviser or Undergraduate Secretary of the Department in which the course or programme is offered.

Students who are registering in the Faculty for the first time or registering again in First Year must bring their letter of admission at the time of registration.

When registering, all students are asked to give their Social Insurance Number.

At registration, each student will complete a year card and will receive:

- (1) a University of Toronto registration card,
- (2) an individual timetable for the programme of courses requested on his pre-registration form.

The registration copy of all fees forms received at the Office of the Comptroller by mail will be sent to the College Registrar concerned prior to the day of registration. If necessary, a student may bring his fees and fees form, together with his cheque for fees and/or his Ontario Student Award Programme statement of award, in person to the Office of the Comptroller. If this is done during or just before the Registration period, then the student will have to bring the receipted registration copy to the College Registrar's Office in order to register.

### **Late Registration**

No student may register and enrol late except by petition. The Council may refuse permission to register late. The late penalty will be enforced, and every petition for late registration and enrolment must be accompanied by the late registration fee. Petitions for the refund of this fee must be submitted by October 6, with a receipt indicating the amount paid.

### **Change of Course**

Students who wish to make a change in their programme after registration must consult their College Registrar. All requests should be made as early in the session as possible, preferably before October 6th. Those submitted after that date will be granted only in the most exceptional circumstances. No second-term course may be begun after February 1st.

### **Confirmation of Programme**

All full-time students must confirm their choice of courses between October 30th and November 15th and verify the address to which statements of final results are to be mailed by signing their programme in the office of their College Registrar. This procedure is essential in order to ensure accurate records and so that examination arrangements may be made. Third- and Fourth-year students must indicate their choice of degree. Regular students confirm their programmes at the office of their College Registrar; full-time Special Students only at the office of the Secretary of the Faculty.

### **Withdrawal**

A student who wishes to withdraw from a course or from his entire programme of studies during the session must do so through his College Registrar. This must be done prior to November 15, if the course is offered only in the First Term, or prior to February 15 in all other cases, or he will be considered to have failed.

The College Registrar is unable to authorize any refund of fees until he receives from the student written confirmation of his intention to withdraw and the registration card.

### **Special Students in Day Classes**

A candidate for admission as a Special Student (one not proceeding to a degree in this Faculty) must apply to the Director of Admissions, Simcoe Hall, University of Toronto for forms of application for admission and return them before August 1st for the Winter Session commencing in September. He should apply for day classes only if intending to register in a full-time programme of five courses. Part-time Special Students (i.e., those taking three or fewer courses in a session) will register in the Division of University Extension but may be given permission to take one or more courses in day classes.

Each application for admission is considered individually in terms of the student's previous academic record. Transcripts of record from other universities or faculties will therefore be required.

Regular and Special Students who have previously registered and obtained standing in the Faculty of Arts and Science must submit a request for registration as a Special Student each session to the Secretary of the Faculty, Sidney Smith Hall, 100 St. George Street, Toronto 181.

Unless clearing a condition, courses taken as a Special Student may not be credited towards a degree offered by this Faculty. Students taking courses for credit or admission elsewhere are advised to consult the institution concerned before registering. Registration instructions will be sent to applicants on admission.

Special Students must obtain standing in any course in which they are enrolled, before they may enrol in an advanced course in the same subject.

Special Students who do not write the annual examinations, or who withdraw



from a First-term course after November 10 or from any other course after February 15, except for medical or similar reasons (for which proof must be submitted), will be considered to have failed to obtain standing in the course. Special Students will not be permitted to write supplemental examinations.

**Part-Time Students**

Applicants for part-time studies in the Winter Session or a Summer Session (day or evening) as Regular or Special Students should consult the calendar entitled "Degree Programmes in Extension" available from the Office of the Director of University Extension, 119 St. George Street, Toronto 181, Ontario. Registration instructions will be sent to those admitted to each session.

## **Requirements for Standing**

Each student in full-time attendance in the Faculty of Arts and Science devises his own programme by combining together each year five full courses chosen to fit his interests, subject only to the following:

- (a) All stated pre-requisite and co-requisite requirements shall be satisfied.
- (b) Any two half courses are equivalent to one full course; they may be from different subjects.
- (c) An extra full or half-course (not for credit towards a degree) may also be taken in each year, and standing obtained will be recorded.

### **First Year Programme**

A student shall be said to have complete a First Year programme when he has obtained standing in five courses designated as being available to First Year students.

A student may not begin any courses not offered to First Year students until he has either:

- (a) complete a First Year programme, or
- (b) has standing in four courses of a First Year programme with an overall average (in these four courses) of at least 60%.

A student may not continue in full-time attendance unless he has standing in at least four courses.

### **Second Year Programme**

A student shall be said to have completed a Second Year programme when he has obtained standing in ten courses, at least three of which must be 200- or higher-series courses.

A student in Second Year may not continue in full-time attendance unless he has standing in at least nine courses.

### **Third Year Programme and Requirements for Three-Year Degree**

A student shall be said to have completed a Third Year programme and shall be entitled to receive a Bachelor of Arts or Bachelor of Science degree when he has:

- (a) obtained standing in fifteen courses at least eight of which must be 200- or higher-series courses;
- (b) a final mark of 60% or better in each of at least eight of the fifteen courses. Of these eight at least four must be 200- or higher-series courses;
- (c) for a Bachelor of Science degree, included in the eight or more required 200- or higher-series courses at least six courses offered by one or more of the following departments: Astronomy, Botany, Chemistry, Computer Science, Geography,\* Geology, Mathematics, Physics, Psychology, Zoology or certain courses offered by other faculties.

**Note:** A Third Year student may not continue in full-time attendance until he has completed the requirements for a three-year degree. A student should notify his

\*For a list of acceptable courses, consult the Department of Geography.

College Registrar no later than November 20th if he wishes to receive his degree. When it is conferred, the designation “Bachelor of Arts (Three-Year)” or “Bachelor of Science (Three-Year)” will appear on his academic record.

#### **Entry into a Fourth Year Programme**

A student shall be permitted to enter a Fourth Year programme only if he has completed the requirements for a bachelor’s degree as described above.

#### **Fourth Year Programme and Requirements for a Four-Year Degree**

- (a) A student shall be said to have completed a Fourth Year programme and shall be entitled to have the designation “Bachelor of Arts (Four-Year)” or “Bachelor of Science (Four-Year)” entered on his record when he has:
- (i) qualified for a 15-course degree;
  - (ii) at the first six attempts completed an additional five courses, no more than one of which may be a 100-series course;
  - (iii) obtained a final mark of 60% or better in each of at least four of the five courses;
  - (iv) for a Bachelor of Science degree, included in the twelve or more required 200- or higher-series courses at least nine courses offered by one or more of the following departments: Astronomy, Botany, Chemistry, Computer Science, Geography\*, Geology, Mathematics, Physics, Psychology, Zoology or certain courses offered by other faculties.
- (b) For the degree of Bachelor of Commerce a student must have:
- (i) qualified for a 15-course degree;
  - (ii) obtained standing in twenty-three courses as prescribed in the notes below and as outlined for the Programme in Commerce and Finance;
  - (iii) obtained a final mark of 60% or better in each of at least four of the six courses in his fourth year and in at least seventeen of the twenty-three courses in his four-year programme.

**Notes:** The twenty-three courses must include at least seven courses in Commerce, at least seven courses in Economics, and at least four courses in other than Commerce or Economics two or more of which must be taken in second or later years.

The required Commerce courses include Financial Accounting, Managerial Accounting, Information Systems & Control, and Corporation Finance.

The required Economics courses include Introductory Economics, Microeconomic Theory, Macroeconomic Theory, Statistics, Economic History (or History of Economic Thought) and one advanced course with an analytical emphasis.

The required courses in other than Commerce or Economics must include a course in Mathematics (calculus).

\*For a list of acceptable courses, consult the Department of Geography.

A sixth course taken in first year will not count as one of the twenty-three courses required in the Programme.

In each of the second, third and fourth years six courses must be taken through the first and second terms.

No more than eight 100-series courses can be taken in the four year programme.

### **Probation, Suspension and Refusal of Further Registration in the Faculty**

1. A student will be placed *on probation* if:

- (a) he fails two or more courses in any session, or
- (b) at the end of any session (Winter or Summer) including or subsequent to that in which the fourth course is attempted he has obtained a grade of C (or higher) in fewer than 50% of his course attempts since beginning studies leading to the degree. Under these circumstances he will be warned that he must (re-)gain the required 50% of C's by the end of the next comparable academic session.

2. A student will be *suspended* from the Faculty for *one* calendar year if:

- (a) while on probation he fails two or more courses, or
- (b) he does not (re-)gain the required 50% of C's within the specified period on probation.

3. A student will be *suspended* from the Faculty for *three* calendar years if:

- (a) he fails six courses
- (b) he fails to satisfy the requirements for a three-year degree in his first twenty attempts
- (c) while on probation a second time he
  - (i) fails two or more courses, or
  - (ii) does not regain the required 50% of C's
- (d) after return from a one-year suspension he
  - (i) fails two or more courses in any session, or
  - (ii) fails to recover the required 50% of C's by the end of the session, or, in the case where that is impossible, fails to obtain a C (or higher) in any course attempted until such time as the 50% requirement has been satisfied.

4. A student who wishes to return to studies in the Faculty after having incurred a three-year suspension may, after the period of suspension has expired, enrol in any one session in two courses which he has not previously attempted. If he obtains an average grade of B in the two courses, and not less than C in either, he will retain credit for these and for all courses in which he was previously successful and he may re-enrol to complete the remaining courses required for the degree on the condition that he records no failures. A failure in a course after return from a three-year suspension or failure to obtain the specified level



of performance in the first two courses attempted after such a suspension will result in refusal of further registration in the Faculty.

5. A Special Student whose record is unsatisfactory may be refused further registration in the Faculty.

### **General Regulations for Standing**

- (a) All students admitted to the eight Colleges of the Faculty will normally be expected to take a full programme of studies (five courses) in the winter day session of each year. With the approval of the College concerned and the Faculty exceptions may be made.
- (b) (i) A student may withdraw from the Faculty without academic penalty up to February 15th. However, if he withdraws in the Second Term, credit will be retained for any First Term half-courses completed and failure noted for any First-Term half-course failed.
- (ii) If exceptional circumstances warrant it a student may be permitted, on petition, to withdraw from not more than one course (or two half-courses) of his programme without academic penalty.
- (iii) A student may withdraw without academic penalty and without petition from an extra first term half-course before November 10th and from an extra full- or second term half-course before February 15th.
- (c) A student who wishes to enrol in three or fewer courses in any session may be admitted to the Division of University Extension. Such a student will normally enrol in winter evening courses or summer day or evening courses, but may, with the permission of the Department concerned and of the Division of University Extension, also enrol in winter day courses. He may take a maximum of three courses in a winter session and two in summer session. Students may transfer from full-time attendance to the Division of University Extension before February 15th.
- (d) Normally, credit towards a degree will not be given for an extra (sixth) course.

### **Standing in a Course**

The following scale of marks and grades will be used for all courses and half-courses in all years:

Marks	Grade
80% – 100%	A
70% – 79%	B
60% – 69%	C
50% – 59%	D
below 50%	Fail

In addition to the above, a final average of B+ (77-79% ) may be awarded.

In the case of half-courses, standing must normally be obtained in each half-course attempted. Marks in two half-courses may not be averaged to produce standing in an equivalent whole course, except where the department(s) concerned specify beforehand that this will be permitted for particular and stated combinations of two half-courses.

The method of arriving at a final mark for each 200- or higher-series course (or half-course) will be decided by the Department offering the course. The final mark in the 100-series courses will normally be made up of a term mark and an examination mark with the restriction that not less than one-third nor more than two-thirds of the final mark will be based on term work. Final examinations will normally be held in 100-series courses and requests for exemption of courses from this regulation shall be brought before the Council.

#### **Aegrotat Consideration**

If the ability of a student to complete a course is affected by illness or domestic problems occurring after November 20 (First-term courses) or February 15 (Second-term and full courses), a petition may be made through his College Registrar for consideration by the Faculty. If there are adequate grounds for the petition, the Department concerned will determine the status of the work done by the student and the steps, if any, that he must take in order to complete the course.

Such petitions must be filed on or before the last day of the relevant final examination period, together with a medical certificate which includes a statement that the candidate was examined at the time of the illness, or other evidence to support the petition.

## Examinations

### **Attendance and Examinations**

Students proceeding to the degree are required to attend the courses of instruction and the examinations in all subjects prescribed. A student whose attendance at lectures or laboratories or whose work is deemed by the Council of the Faculty to be unsatisfactory, may have his registration cancelled at any time by the Council.

No candidate will be admitted to examinations unless the Head of his College certifies that he has complied with all the requirements of the College.

Students may not rewrite an examination in a course in which they have standing.

### **The Annual Examinations**

The annual examinations are held in late April and early May; final examinations in first-term courses are held in December.

Arrangements may be made to enable eligible candidates to write supplemental examinations in one of the following places: Banff, Calgary, Charlottetown, Edmonton, Fredericton, Halifax, Kapuskasing, Kenora, Kingston, Kirkland Lake, London, Montreal, North Bay, Ottawa, Quebec, Regina, Saskatoon, Sault Ste. Marie, St. John's (Nfld.), Sudbury, Thunder Bay, Vancouver, Whitehorse, Windsor, Winnipeg, and London, England. Applications for such arrangements must be made not later than November 20, accompanied by the required supplemental examination fee and the special fee.

Candidates for the annual examinations at outside centres must notify the Secretary of the Faculty before April 1st if they do *not* wish to write one or more of the examinations for which they applied; otherwise the fee will be forfeited.

### **The August Examinations**

The August examinations are held in the week following the conclusion of summer session classes. They are open to students enrolled in the Summer Session (evening and day) and to students eligible to write supplemental or deferred examinations.

Candidates who are permitted to write supplemental or deferred examinations must submit a completed printed form of application to the Secretary of the Faculty by July 10. After this date an additional fee of one dollar per day to a maximum penalty of \$20 must be paid. No application will be accepted after July 31. They may write these examinations at the places listed above as outside centres. Such candidates must make application for this privilege before July 10 and must pay the special fee.

Candidates for the August examinations at outside centres must notify the Secretary of the Faculty before August 1 if they do *not* wish to write one or more of the subjects for which they applied; otherwise the fee will be forfeited.

### **Failed Fall Course**

If a student fails a fall course, he may take the same course in the spring or a different spring course, and the best 5 full courses will be averaged. The same applies

to a student who passed a fall course but did not do well and wishes to raise his average. In both cases the fall course mark will appear on his transcript.

### **Supplemental Examinations**

Students in a First Year programme may write a supplemental examination in August in one failed 100-series course if they have a term mark in that course of at least 60%. Failure in a supplemental examination will not count as a second failure, but will necessitate re-enrolment in the failed course or a substitute.

Students in Second, Third and Fourth Years and Special Students will not be permitted to write supplemental examinations in 100-series courses and none will be offered in 200-, 300- and 400-series courses.

### **Degrees**

Students are permitted to qualify for only one degree (Bachelor of Arts, Bachelor of Science, or Bachelor of Commerce) by completing a four-year programme of studies.

A student who qualifies for a Bachelor of Arts or Bachelor of Science degree at the end of his Fourth Year will graduate and receive his diploma at that time unless he has already done so at the end of his Third Year. A student who wishes to receive his degree at the end of his Third Year must notify his College Registrar at the time of confirmation of programme early in November.

### **Transcripts**

Copies of a student's transcript of academic record will be issued at his request, subject to reasonable notice and a nominal copying fee. Requests should be submitted in person or by writing to the Secretary, Faculty of Arts and Science, Sidney Smith Hall, 100 St. George Street, Toronto 181. (Telephone 928-3388)

### **Checking of Marks**

It is a policy of the Faculty that no examination papers or essays will be re-read or re-evaluated after results have been issued. Examination papers are re-read in each examination in which a mark of less than 50 per cent has been assigned, and no appeal will be considered for further re-reading of such papers. Papers in which at least 50 per cent has been obtained will not be re-read.

All results are carefully reviewed before being released. However, the clerical work involved in the department and in the Faculty Office will be checked if a petition is submitted through the College or the Division of University Extension with a fee of five dollars per course. This fee will be refunded if an error is found.

### **Plagiarism — Advice for Essay Writers**

Plagiarism is the act of presenting the ideas or words of another as your own. While it may be argued that few ideas are original, instructors expect students to



acknowledge the sources of ideas and expressions that they use in essays. To represent them as self-created is dishonest and academically worthless.

You may quote or paraphrase another writer if he has stated an idea strikingly, as evidence to support your arguments or conclusions, or as a point against which to argue, but such borrowing should be used sparingly and always indicated in a footnote. The aim of scholarship is to develop your own ideas and research and only by trying to develop your own thoughts and arguments will you mature academically.

To provide adequate documentation is not only an indication of academic honesty but also a courtesy enabling the teacher to consult your sources with ease. Failure to do so constitutes plagiarism which is subject to serious academic penalty.

## COURSE ABBREVIATIONS

### Subject Abbreviations

ANT	Anthropology	GRH	Greek & Roman History (See Classics)
APM	Applied Mathematics (See Mathematics)	HIS	History
AST	Astronomy	INE	Interdisciplinary Erindale
BIO	Biology (Botany, Zoology & Microbiology)	ITA	Italian
CHM	Chemistry	LAT	Latin (See Classics)
COM	Commerce	LIN	Linguistics (See Interdisciplinary Courses)
CMM	Communications	LTR	Literature in Translation
CSC	Computer Science (See Mathematics)	MAT	Mathematics
DRA	Drama	MUS	Music
ECO	Economics	PHL	Philosophy
ENG	English	PHY	Physics
FAR	Fine Art	POL	Political Science
FRE	French	PRT	Portuguese (See Spanish)
GGR	Geography	PSY	Psychology
EPS	Geology & Geophysics (Earth & Planetary Sciences)	REL	Religious Studies
GER	German	SLA	Slavic Languages & Literature (Russian)
GRK	Greek (See Classics)	SOC	Sociology
GLL	Greek & Latin Literature (See Classics)	SPA	Spanish
		STA	Statistics (See Mathematics)
		SUR	Survey Science

### Letter Abbreviations

E	Course given only at Erindale
F	Half course given in the First (Fall) Term only
L	Lecture Hours
P	Practical or laboratory hours
P.I.	Permission of Instructor
R	Thursday
S	Half course given in the Second (Spring) Term only
T	Tutorial Hours
TBA	To be announced
Y	Half course which must be taken throughout both terms
/	means "or"
&,(,)	means "and"
(I)	may be taken by first year students

## Subjects and Courses

### ANTHROPOLOGY

Faculty adviser: Professor A. Mohr

Anthropology is the study of human biology and culture and their connections. *Physical Anthropology* focuses on the evolution of man and his nearest primate relatives, as revealed by fossil remains, and on the constitution, physiology and variation of living populations. *Cultural Anthropology* is the study of the way of life of peoples throughout the world, their economy, social organization, religion, language. Particular emphasis is given to non-western groups. Conclusions are drawn about interrelationships of cultural elements, man's relationship to the environment and processes of culture change. Physical evidence (habitations, tools, food remains) of groups no longer extant are investigated through *Archaeology* to reconstruct the cultures of the past and to trace their development from earliest times.

The Anthropology programme offers the student the general background necessary for the advanced training required for professional positions. It is the special concern of the faculty to introduce students to research methods of physical and cultural anthropology including archaeology and to involve them in the research programmes of the department. Students planning an anthropology concentration should consult faculty members for advice.

Anthropologists are employed as faculty in universities and colleges, as researchers in museums and by government. For additional information see *Anthropology as a Career* by Wm. C. Sturtevant, available at the Erindale College Library.

For a Three Year B.A., with a concentration in Anthropology, the following courses are required: First Year: ANT 100. Second Year: 2 ANT courses. Third Year: 2 ANT courses. Programme should include the following core courses: ANT 204E, ANT 226E, and ANT 233E.

For a Four Year B.A., with a concentration in Anthropology, three additional Anthropology courses are required including ANT 399E.

**ANT 100E Introduction to Anthropology, 2L, 1T**

A survey of the biological and cultural aspects of man and his behaviour, including the evolutionary development of man and the scope of his present variation; the concept of culture, its various aspects and processes and origin development and differentiation of cultures from the archaeological record.

**Note:** Students should report to Room 255, Preliminary Building, during the registration period for assignment to tutorials in order to complete registration for this course.

**Instructors:** F. J. Melbye and L. Reinhardt

**ANT 201EF Peoples of the Far East, 2L (Not offered in 1972-73)**

(I) Description of traditional cultures of China, Korea, Japan and Siberia.

Complex cultural interrelationships in this area (diffusion, assimilation, and cultural distinctiveness).

*Instructor:* L. L. Sample

ANT 202ES **Peoples of Africa, 2L** (Not offered in 1972-73)

(I) *Instructor:* L. Reinhardt

ANT 203ES **Peoples of Southeast Asia and Oceania, 2L** (Not offered in 1972-73)

(I) Survey of the cultures of southeast Asia; peopling of the Pacific Islands and description of historic cultures of Oceania.

*Instructor:* L. L. Sample

ANT 204E **Social and Political Organization, 2L, 1T**

(I) A general survey emphasizing non-western peoples.

*Instructor:* L. Reinhardt

ANT 205E **Technology, Society and Culture, 2P**

The role of technology in social and cultural change and adaptation, including an introduction to basic techniques and their historical development.

*Pre-requisite:* P.I.

*Instructors:* L. Reinhardt and R. M. Vanderburgh

ANT 207EF **Folklore, 2L, 1P**

(I) Lectures on ethnographic field techniques; survey description and comparison of types and functions of the "oral literature" of various culture areas. Student project: field work in modern folklore.

*Pre-requisite:* P.I.

*Instructor:* L. L. Sample

ANT 208ES **Advanced Folklore, 2L, 1P**

(I) Various approaches to folklore analysis, relation to general anthropological theory and method. Student project: laboratory in folklore analysis.

*Pre-requisite:* ANT 207EF and P.I.

*Instructor:* L. L. Sample

ANT 209E **Religion in Culture, 2L, 1T**

(I) An anthropological view of religious behaviour with emphasis on the religions of non-western peoples.

*Instructor:* R. M. Vanderburgh



- ANT 210E **The Anthropology of Art, 2P** (Not offered in 1972–73)  
 (I) Comparative approaches to art and aesthetics in world cultures and the meaning and function of art in specific cultural contexts.  
*Instructor: L. Reinhardt*
- ANT 220EF **Archaeological Field Methods, 2P**: Saturday field trips: 8 a.m.–5 p.m.  
 (I) Instruction in archaeological field techniques through excavation of a prehistoric site located near Erindale College and by laboratory instruction.  
*Pre-requisite/Co-requisite: ANT 100 and P.I.*  
*Instructor: A. Mohr*
- ANT 221ES **Archaeological Laboratory Analysis, 1L, P**: To be arranged (Not offered in 1972–73)  
 (I) Analysis and description of archaeological material; primitive technology and archaeological interpretation.  
*Pre-requisite: ANT 220EF and P.I.*  
*Instructor: A. Mohr*
- ANT 225E **North American Archaeology, 2L, 1P**  
 (I) A survey of culture history from the first appearance of man in North America until the coming of the Europeans. Selected readings provide the broad outline; lectures will discuss methods of analysis and offer detailed summaries of the evidence of selected sites and their interpretation.  
*Instructor: A. Mohr*
- ANT 226E **Old World Prehistory, 2L**  
 (I) Earliest evidence for human culture; development, differentiation and diffusion of cultures in the Old World through almost 2,000,000 years. Interpretation of man's cultural adaptations from material remains of that behaviour.  
*Instructor: L. L. Sample*
- ANT 233E **Introduction to Physical Anthropology, 2L, 2P**  
 An introduction to physical anthropology and human biology. Lectures will discuss human evolution, variation and biological patterns. A laboratory is offered to familiarize the student with human biological materials and techniques.  
*Pre-requisite: ANT 100E/P.I.*  
*Instructor: B. A. Sigmon*

- ANT 241E **Indians of North America, 2L, 1P**  
 (I) Survey of native cultures and discussion of the role of environmental and historical factors.  
*Instructor: A. Mohr*
- ANT 304ES **Approaches to the Study of Canadian Indian Societies, 2T**  
 A seminar course examining the acculturative situation.  
*Pre-requisites: ANT 204E or ANT 241E and P.I.*  
*Instructor: R. M. Vanderburgh*
- ANT 320EF **Advanced Archaeological Field Methods, 2P: Saturday field trips 8 a.m.-5 p.m.**  
 Instruction in archaeological field techniques, laboratory preparation, supervision of field and laboratory work. (Conducted concurrently with ANT 220EF)  
*Pre-requisite: ANT 220EF and P.I.*  
*Instructor: A. Mohr*
- ANT 321ES **Advanced Archaeological Analysis, P: To be arranged (Not offered in 1972-73)**  
 Analysis of archaeological material and report preparation.  
*Pre-requisites: ANT 221ES and P.I.*  
*Instructor: A. Mohr*
- ANT 334E **Skeletal Biology of Prehistoric Peoples, 2L, 2P**  
 The course includes the method and technique of recovering, preserving, recording and analysing skeletal remains. The human skeleton will be studied in detail, and practical experience will be offered in the analysis of a skeletal population.  
*Pre-requisite: P.I.*  
*Instructor: F. J. Melbye*
- ANT 338E **Primate Palaeontology and Anatomy, 1L, 3P**  
 A survey of the palaeontological evidence and the evolution of the Order Primates, including the study of the soft and skeletal anatomy of representatives of different taxa of living primates.  
*Pre-requisite: ANT 233E/BIO 251E/P.I.*  
*Instructor: B. A. Sigmon*
- ANT 339EF **Human Adaptability, 3L (Not offered in 1972-73)**  
 A survey of the nature and range of biological variation in modern man.  
*Pre-requisite: ANT 100E, ANT 233E or P.I.*  
*Instructor: B. A. Sigmon*

- ANT 297EY **Independent Study**, T: To be arranged  
Supervised reading on selected anthropological topics.  
*Pre-requisite:* P.I.  
*Instructor:* Staff
- ANT 398E **Independent Reading**, T: To be arranged  
Supervised study of selected anthropological topics.  
*Pre-requisite:* P.I.  
*Instructor:* Staff
- ANT 399E **Independent Research**, T: To be arranged  
Supervised research in anthropology.  
*Pre-requisite:* P.I.  
*Instructor:* Staff

### ASTRONOMY

Faculty Advisers: Professors J. R. Percy and R. Racine

Astronomy, the "Queen of Sciences," is wide-ranging in its content and in its implications. It embraces such topics as the origin and evolution of the planets, stars, galaxies and universe; the origin of life on earth and elsewhere; the behaviour of matter in varied environments and, in general, the influence of our ideas of the universe on man's thinking down through the ages. Because of its breadth, it has always formed a valuable part of a general education.

AST 100, which deals in a systematic way with many facets of astronomy, is recommended for any student who is interested in astronomy. Although no science or mathematics background is required, the course is sufficiently flexible to appeal to both science and non-science students. Films, slides, demonstrations, trips to the observatory and planetarium, and evening sessions form an important part of the course.

At a more advanced level, AST 310EF and AST 320ES may be taken together or separately. They are intended for students with a serious interest in science (mathematics, physics, astronomy, space science or earth and planetary sciences), but require no previous introduction to astronomy.

Students who wish to specialize in Astronomy and Astrophysics should consult the Astronomy discipline representatives at Erindale.

- AST 100 **An Introduction to Astronomy**, 2L, 1T  
An account of the nature, origin and evolution of the sun and planets, the stars, the galaxies and the universe. No special science or mathematics background is required for this course. (May not be combined with AST 110, 120, 130 or 220 previously offered.)  
*Instructor:* TBA

**AST 310EF Solar System Astrophysics, 2L**

The physical nature of the sun, planets, satellites and other constituents of the solar system. Their motion, structure, origin and evolution.

*Co-requisite:* At least one 300-level Physics course/P.I.

*Instructor:* R. Racine

**AST 320ES Stellar and Galactic Astrophysics, 2L**

The structure, origin and evolution of the sun, stars, galaxies and universe. Introduction to relativity and cosmology.

*Co-requisite:* At least one 300-level Physics course/P.I.

*Instructor:* R. Racine

### **BIOLOGY**

Faculty Advisers: Professors P. F. Maycock (Botany), P. J. Pointing (Zoology) and A. Guha (Microbiology)

Biology is the science of living organisms—their kinds and relationships, origins and evolution, structure and development, their functions and mutual relationships in the environments in which they occur. Biology relates to such major human problems as population, conservation and pollution. Studies of the interaction of plants, animals and environment show how famine and disease follow the unwise use of habitat and how pollution aggravates these problems. A study of Biology is a key to the solution of many of these world problems.

Botanists, microbiologists and zoologists at Erindale cooperate closely in organizing courses and programmes in *Biology* which stress the relationships of plants and animals in terms of form, function, environment and microstructure, from the ecosystem, whole plant or animal down to the molecular level. *Botany* is concerned with plants, their structure, functions and basic relationships to the environment. The food we eat, the air we breathe, the drugs that heal us, are all ultimately tied to the relation of plants to the natural environment. Plants are the basis of vast and complicated food chains in the oceans, lakes and rivers as well as in terrestrial ecosystems. Plants may be studied from many points of view. One approach is to subdivide the subject on the basis of the different classes of plants; another approach is to deal with physiology, genetics, ecology, taxonomy, plant geography and systematics. *Zoology* is the science concerned with the study of the structure, the functioning and the interrelationships of animals. The general field of zoology is divided into a large number of special areas of study and research. One way to subdivide zoology is according to the classification of animals; another way is to divide it by methods of study such as: cell biology, radiation biology, physiology, genetics, ethology (animal behaviour), and population biology. *Microbiology* is the study of minute living forms that can be seen as individuals only with the microscope and is concerned with small *plant* forms (algae, molds, yeasts and bacteria), single-celled *animals* (protozoa) and viruses. Microbiology is



not only considered largely an applied field concerned with health or economic welfare, but with the recent development of Molecular Biology, Microbiology has also been drawn to the centre of the Biological Stage. It deals with bacteriology, virology, immunology, applied microbiology and molecular biology.

Careers in biology are in research, in teaching at all levels, and in government and industry. Professional careers in biology require specialization at the undergraduate level, and usually an advanced degree. Students should bear this in mind when planning programmes. Students who intend to become high-school biology teachers are urged to arrange programmes to meet the requirements of the High School Assistant's Certificate, Type A, Ontario Department of Education.

Staff will assist students in organizing an appropriate group of courses according to their interests or a specialized programme in biology.

### SUGGESTED PROGRAMMES IN BIOLOGY

The programme in Arts and Science provides a great deal of flexibility in students' subject selections. In fact, many students, when faced with the variety of courses, have difficulty in selecting an appropriate sequence. To assist students in making choices, the biology staff members, collectively, have devised several sample programmes which will serve as guides. These are suggested groupings of subjects which are recommended but should not be considered as the only streams, nor as being inflexible; they are, we hope, helpful suggestions.

<i>Year</i>	<i>General Biology</i>	<i>Ecology</i>	<i>Cell Biology</i>	<i>Physiology</i>
I	BIO 100E CHM 120E 3 Options* (one recommended from Humanities)	BIO 100E CHM 120E BIO 110E 2 Options	BIO 100E CHM 120E MAT 110EF/S PHY 120E 1½ Options	BIO 100E CHM 120E MAT 110EF/S PHY 120E 1½ Options
II	BIO 230E BIO 240E BIO 241E BIO 250E BIO 251E BIO 252E BIO 320E BIO 321E	BIO 230E BIO 250E BIO 251E BIO 260E 1 Option	BIO 230E BIO 241E BIO 240E BIO 270EF 1½ Options	BIO 241E BIO 250E or 251E BIO 252E BIO 270EF 1½ Options
III		BIO 240E BIO 241E BIO 320E or 321E BIO 330E 1 Option	BIO 252E BIO 250E or 251E BIO 370E BIO 320E or 321E 1 Option	BIO 230E BIO 240E BIO 260E BIO 320E or 321E 1 Option

\*Courses in Arts and Science other than biology.

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IV (1) (2)	5 Options such as: BIO 442E BIO 322E <i>and</i> 323E BIO 260E etc.	5 Options such as: BIO 430E BIO 431E BIO 432E BIO 322E <i>and</i> 323E etc.	5 Options such as: BIO 441E BIO 470E etc.	5 Options such as: BIO 322E BIO 323E BIO 324E BIO 421EF BIO 422ES BIO 423ES BIO 424ES BIO 441EF
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Three to be chosen from the list as well as  
2 options in years II and III.

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- (1) A maximum of 12 Biology courses in a four-year degree is suggested for a well-rounded education.
- (2) A fourth year would consist primarily of biology options.

**BIO 100E    The Study of Life, 2L, 3P**

Organized around three major abstract concepts: Time (Evolutionary Processes and Products), Energy (Its Procurement and Utilization by Living Organisms), and Information (The Organization of Living Systems). It presents an integrated study of life at four levels:

molecular, cellular, organismal, and social; leading the student to an awareness of the five unique characteristics of living material, i.e.

Organized Structure, Specialized Function, Growth and Development, Heredity, and Evolution. Practical sessions will introduce the student to a wide range of material and techniques.

*Instructors:* G. R. Thaler and Staff

**BIO 110E    Field Biology, 5P**

A practical field and laboratory course designed to acquaint the student with plants and animals in the local environment. In the field observation and recognition will be emphasized. Identification and collection techniques will be covered in the laboratory. Students will be required to make a proper collection of some group of animals or plants.

*Instructors:* D. L. Gibo and P. W. Ball

**BIO 130E    Man and the Environment, 2L, 3T**

The ecological problems confronting humanity will be examined on both a local and global scale. The biological basis of the population problem, pollution and status of resources will be stressed. Divergent opinions will be expressed by outside speakers. Field trips will be

arranged, and each student will spend time upon a project of personal interest. This course is intended primarily for students in the arts, humanities and social sciences. No previous experience in biology is assumed.

*Instructors:* R. Frost and P. J. Pointing

**BIO 230E Ecology, 2L, 3P**

The study of the interrelations of plants and animals with the environment will include the composition, structure, and function of natural ecosystems at the population, community, and biosphere levels of organization. Other topics include energy flow, physical factors, population processes and succession.

*Pre-requisite:* BIO 110E recommended preparation and P.I.

*Instructors:* P. F. Maycock, P. J. Pointing, W. T. Geiling and W. G. Sprules

**BIO 240E Genetics, 2L, 3P**

A course presenting current concepts in genetics; examples are drawn from microbes, plants, animals and viruses to illustrate: the molecular structure of the gene, mechanisms of gene action and gene regulation, levels of genetic organization in different life forms, basic population genetics, and genetical aspects of evolution. Practicals will include both plant and animal material and will involve carrying out both directed and independent experiments. Much of the laboratory work will involve *Drosophila*.

*Pre-requisite:* BIO 100E/110E

*Co-requisite:* BIO 260E recommended

*Instructors:* D. L. Gibo and W. G. Filion

**BIO 241E Cell Biology, 2L, 3P**

Cell structure and function. Cell organization at the organelle and molecular level will be considered in bacterial, animal and plant cells. Topics include the structure and function of membranes, nuclei, mitochondria, plastids and other organelles. In the laboratory the student will become familiar with current techniques of cell biology.

*Pre-requisite:* BIO 100E

*Instructors:* J. C. Silver, W. J. S. Downton and D. H. O'Day

**BIO 250E Plant Form and Function, 2L, 3P**

A survey of the major plant groups from the Fungi and Algae to Flowering forms. The structure and life history of representatives are considered together with a discussion of the function of the major

tissues and organs. The evolution of plants is discussed with particular reference to fossils.

*Pre-requisite:* BIO 100E/P.I.

*Instructors:* P. W. Ball and W. G. Filion

**BIO 251E    Animal Form and Function, 2L, 3P**

How animals are structurally designed to cope with the environment is the main theme. The "capture" of food, the processing and distributing systems, and locomotion are some of the topics treated comparatively and from an evolutionary point of view, drawing examples from both vertebrates and invertebrates.

*Pre-requisite:* BIO 100E and P.I.

*Instructors:* G. K. Morris and P. J. Pointing

**BIO 252E    Developmental Biology, 2L, 3P**

A study of important developmental events in plants and animals from the formation of gametes through fertilization and organogenesis. Laboratories stress the dynamic aspects of development by frequent use of living material.

*Pre-requisite:* BIO 100E

*Co-requisite:* BIO 241E

*Instructors:* W. J. S. Downton and D. H. O'Day

**BIO 260E    Biometrics, 2L, 3P**

An introduction to the theory and application of statistics in Biology. Topics will include probability theory, descriptive statistics, sampling theory, hypothesis testing, analysis of variance, experimental design, correlation and regression, and non-parametric methods. Collection and analysis of biological data will be carried out in the laboratory.

*Instructor:* W. G. Sprules

**BIO 270EF    Introduction to Biological Chemistry, 2L, 3P**

(Same as CHM 270EF)

Introduction to the physical properties of solutions and interfaces with emphasis on techniques and theories pertinent to the chemistry of living systems. Colligative properties of solutions, interfacial phenomena, thermo-dynamics and equilibria, elementary kinetics, oxidation and reduction will be studied.

*Co-requisite:* CHM 240EF

*Instructors:* B. I. Roots and Chemistry staff



- BIO 320E Plant Physiology, 2L, 3P**  
 Study of principal physiological processes of plants and the influence of environmental factors on these processes. Topics will include: water relations, mineral nutrition, translocation, photosynthesis, respiration, general metabolism, growth and development.  
*Pre-requisite:* BIO 100E, CHM 120E  
*Instructor:* P. V. Rangnekar
- BIO 321E Introduction to Animal Physiology, 2L, 3P**  
 A comparative approach will be taken to the study of physiological processes in animals. Emphasis will be placed on the understanding of underlying principles. Topics will include respiration, excretion, osmoregulation, ionic regulation and the physiology of muscle and nerve.  
*Pre-requisite:* BIO 100E, CHM 120E  
*Instructor:* B. I. Roots
- BIO 322EF Animal Behaviour I: Social Factors, 2L, 3P**  
 A lecture and practical course dealing with the organization of animal societies, communication and sensory coding, learning, and the physiological basis of behaviour.  
*Pre-requisite:* BIO 100E/P.I.  
*Instructor:* G. K. Morris
- BIO 323ES Animal Behaviour II: Physical Factors, 2L, 3P**  
 A lecture and practical course dealing with the responses of animals to environmental factors such as light, temperature, humidity, etc.  
*Pre-requisite:* BIO 100E/P.I.  
*Instructor:* P. J. Pointing
- BIO 324E Animal Physiology, 2L, 3P**  
 A few topics will be studied in depth. Emphasis will be placed on the understanding of underlying principles. Topics will be selected from: respiration, excretion, osmoregulation, ionic regulation, endocrinology, muscle physiology and others.  
*Pre-requisites:* BIO 100, CHM 120, BIO/CHM 270 recommended  
*Instructor:* TBA
- BIO 330E Plant Ecology, 2L, 3P**  
 The relationships of plant species, populations and complexes on the sociological, environmental and physiological levels. Practical field

work, laboratory studies and experimentation are included. Provides a basis for practical training in conservation and environmental quality research.

*Pre-requisite:* BIO 230E recommended

*Co-requisite:* BIO 110E recommended

*Instructors:* P. F. Maycock and R. Frost

BIO 332E **Freshwater Biology, 1L, 4P**

A survey of the freshwater algae, rooted aquatic plants, zoöplankton, benthic fauna, and fish. The taxonomy, life histories and ecology of local species will be emphasized.

*Pre-requisite:* BIO 110E/P.I.

*Instructor:* W. T. Geiling

BIO 350E **Taxonomy and Evolution of Flowering Plants, 2L, 3P**

A consideration of the principles of classification of living organisms with particular emphasis on flowering plants. Topics to be discussed include "The Species Concept", "Polyploidy", "Geographical Variation" and "Numerical Taxonomy". The laboratory work will involve an examination of the main families of flowering plants and the study of variation in naturally occurring plant populations.

*Pre-requisite:* BIO 110E, BIO 240E/P.I.

*Instructor:* P. W. Bali

BIO 351ES **Invertebrate Form and Function, 2L, 3P**

The structure and classification of invertebrate animals, especially arthropods. A continuation in greater depth of invertebrate topics begun in BIO 251. Appendages and skeletons, copulatory organs and sensory receptors will be studied as adaptive structures.

*Pre-requisite:* BIO 251E and/or BIO 110E

*Instructor:* G. K. Morris

BIO 370E **General Microbiology, 2L, 3P**

Historical development of microbiology; structure and ultrastructure of micro-organisms; physiology and nutrition of bacteria; growth and cultivation of bacteria; nature of viruses; bacteriophage and a limited survey of animal viruses and their properties; micro-organisms in medicine, industry and agriculture; immunology and immunochemistry, microbial physiology, microbial genetics and microbial ecology.

*Pre-requisite:* BIO 100E

*Co-requisite:* BIO 241E recommended

*Instructor:* A. Guha

- BIO 371ES Virology, 2L, 3P**  
 A course on the fundamental principles and techniques of animal virology including methods of tissue culture, virus cultivation and assay. The physiology of virus development will be dealt with in detail.  
*Pre-requisite:* BIO 100E  
*Co-requisite:* BIO 370E, BIO 241E recommended  
*Instructor:* TBA
- BIO 420EF Photosynthesis and Productivity, 2L, 3P**  
 Factors influencing carbon dioxide exchange and productivity in plants. Topics include: photophysiology and carbon metabolism of major photosynthetic pathways; photorespiration and dark respiration; environmental effects; photosynthetic performance of sun/shade species and ecotypes; improving photosynthetic efficiency; budgets.  
*Pre-requisites:* BIO 100E, BIO 241E, P.I.  
*Co-requisites:* BIO 230E recommended  
*Instructor:* W. J. S. Downton
- BIO 421EF Physiology of Nervous Systems, 1L, 1T, 3P**  
 Various aspects of the physiology of nervous systems will be studied including neurochemistry and neuropharmacology.  
*Pre-requisites:* BIO 100, CHM 120, BIO/CHM 270EF, BIO 321 recommended, P.I.  
*Instructor:* B. I. Roots
- BIO 422ES Acoustical Biology, 2L, 3P (Not offered in 1972-73)**  
 The role of sound in animal communication. Mechanisms of sound production and reception; the signal function of sounds. Recording and analysis techniques.  
*Pre-requisite:* BIO 322EF/P.I.  
*Instructor:* G. K. Morris
- BIO 423ES Radioisotopes in Biology, 2L, 3P**  
 Radioisotopes, their production and properties useful in biological or biochemical investigations. Principles of tracer methodology. Application of tracer techniques in translocation, assimilation, intermediary metabolism, etc. Measurement of radioactivity using different counting systems, radioautography, etc.  
*Pre-requisites:* BIO 100E, CHM 120E, PHY 120E, MATH 110E and PHY 403EF recommended or P.I.  
*Instructor:* P. V. Rangnekar

- BIO 424ES **Physiology of Sense Organs, 2L, 3P**  
 A comparative study will be made of the sense organs of animals.  
*Pre-requisites:* BIO 100E, CHM 120E, PHY 120E, BIO 321 recommended, P.I.  
*Instructor:* TBA
- BIO 430E **World Ecosystems, 2L, 3P**  
 A systematic investigation of the major plant and animal formations of the world. The composition, structure, distribution, productivity and dynamic aspects, will be viewed in relation to major environmental influences. The importance of these ecosystems in cultural, economic, conservation, and social terms will also be considered.  
*Pre-requisite:* BIO 230E, 330E, 331E (1971-72 calendar), P.I.  
*Instructor:* P. F. Maycock
- BIO 431E **Theoretical Ecology, 2L, 1T**  
 An advanced course in which the theoretical aspects of a selection of ecological phenomena will be emphasized. Topics will include production and population dynamics, energy flow, character displacement and competitive exclusion, succession, community diversity and stability, and theories of biogeography. Techniques of analysis such as mathematical modelling and principle components analysis will also be discussed. Material for the course will come principally from current ecological literature.  
*Pre-requisite:* BIO 230E  
*Instructors:* W. T. Geiling and W. G. Sprules
- BIO 432E **Applied Ecology, 2L, 3P**  
 A study of the ecological implications of principles and techniques employed in the utilization and conservation of natural resources. Examples will be chosen mainly from agriculture, forestry, fish and wildlife exploitation and recreation. Problems involved in the establishment of natural conservation areas, the multiple use of resources and methods of land use planning will be discussed. The course will include lectures, seminars, field work and individual projects.  
*Pre-requisite:* BIO 230E  
*Co-requisite:* Recommended preparation: BIO 330E  
*Instructor:* R. A. Frost
- BIO 435EF **Biogeography, 3L, 1T**  
 Lectures, tutorials, readings, and practical exercises designed to



elucidate the principles of plant and animal distribution patterns.

*Pre-requisites:* BIO 230E/P.I.

*Instructor:* G. R. Thaler

**BIO 440EF Population Genetics, 2L, 3P (Not offered in 1972-73)**

Behaviour of genes in populations, mechanisms for maintaining genetic diversity, consequences of population size, inbreeding and natural selection are some of the topics that will be covered. The laboratory work will include population studies and simple model testing. Course will alternate with BIO 442EF.

*Pre-requisite:* BIO 100E/110E

*Instructor:* D. L. Gibo

**BIO 441EF Electron Microscopy, 1L, 3P**

An introduction to the theory and practice of electron microscopy and its application to the study of the ultrastructure of cells and tissues.

*Pre-requisite:* P.I.

*Instructor:* B. I. Roots

**BIO 442EF Evolution, 2L, 3P**

Major features and strategies of evolution will be emphasized.

Mechanisms of speciation, mimicry, character displacement and genetic drift are some of the topics that will be covered. Labs include selection experiment, model testing, and individual presentations.

Course will alternate with BIO 422ES

*Pre-requisites:* BIO 100E/110E; BIO 240E recommended

*Instructor:* D. L. Gibo

**BIO 443EF Plant Breeding, 2L, 3P**

The application of genetics and biometry to the principles of breeding both self-pollinated and cross-pollinated plants. Specific examples are drawn from Ontario grown crops.

*Pre-requisite:* BIO 240E

*Co-requisite:* BIO 260E

*Instructor:* W. G. Fillion

**BIO 452EF Current Topics in Animal Development, 2L, 1T**

This course focuses on the contribution of various scientists to the understanding of such problems as growth, induction, regeneration, oocyte maturation, gene amplification and cancer. Informal tutorial

sessions enhance the lectures through critical discussions of recently published research articles.

*Pre-requisites:* BIO 241E, BIO 252E, P.I.

*Instructor:* D. H. O'Day

**BIO 470E    Molecular Biology, 2L, 3P**

To provide a background for students of biology and other sciences for further study in modern biology. The course will deal with the structure, function and biosynthesis of nucleic acids and proteins; cell permeability; bioenergetics; regulatory mechanisms in bacteria; microbial and viral genetics; immunochemistry; modern physico-chemical methods in studies of biomolecules, etc.

*Pre-requisites:* BIO 370E, BIO 241E or equivalent, P.I.

*Co-requisites:* BIO 370E, CHM 360E recommended

*Instructor:* A. Guha

**BIO 480ES    Biology Research Project**

A research project carried out under the supervision of a staff member. Open to third or fourth year students. Written consent of staff member supervising the project must be obtained for registration.

**BIO 481ES    Biology Research Project**

Open only to fourth year students. Written consent of staff member must be obtained for registration.

## CHEMISTRY

Faculty Adviser: Professor I. W. J. Still

Chemistry is both a challenging intellectual pursuit and a dominant force in shaping modern civilization. Modern chemistry provides an understanding of the structures and properties of atoms and molecules and uses this knowledge to interpret and predict the changes associated with chemical reactions. In addition to its vital role in modern science-based industry, chemistry has an increasingly important bearing on other sciences such as biology, the medical sciences, psychology, geology, metallurgy and astrophysics. This is reflected in the courses offered in the recommended programme in Chemistry. The basic core of chemistry courses, with ancillary Mathematics and Physics, will enable the student to choose courses at the fourth year level reflecting his specific area of interest.

The Chemistry programme offered at Erindale College is a very suitable preparation for those intending to teach chemistry in High School (Type A certificate), continuation into graduate work or entry into industry. It also includes

courses for those working in cognate disciplines such as biology and earth and planetary sciences.

#### Chemistry Specialist Programmes at Erindale

Year I CHM 120E, MAT 135\*/MAT 110EF and 120ES, PHY 120E\*/PHY 110.

Year II CHM 220E‡, 230ES, 240EF, MAT 235E/MAT 244F and APM 241s, PHY 220E/another 200-series course in Science/Mathematics.

Year III CHM 320E#, 330E, 340E, and one course from CHM 350E, CHM 360E, another Science or Mathematics.

Year IV Three 400 series courses in chemistry.

\*Recommended for this programme.

‡For students interested in biological areas of chemistry, this course may be deferred until Third Year and substituted in Second Year by e.g. CHM 270EF.

#If CHM 220E is taken in Third Year, this course may be deferred until Fourth Year.

N.B. Current Type A Certificate of Education for a chemistry specialist requires a minimum of nine courses in chemistry, with a B average standing, to be taken during a four-year course.

#### CHM 120E **Basic Concepts of Chemistry**, 2L, 1T, 1½P

Molecular structures and geometry, chemical bonding and chemical reactions are discussed on the basis of insight into the behaviour of atoms and molecules that comes from descriptive quantum mechanics, chemical kinetics, and chemical thermodynamics. The Periodic Table; introduction to organic and inorganic chemistry; chemical equilibria; reaction mechanisms and chemical reactivity.

*Pre-requisite:* Gr. XIII CHM and MAT A/P.I.

*Co-requisite:* MAT 135 and PHY 120E recommended for those intending to specialize in chemistry

*Instructor:* E. A. Robinson and J. C. Poë

#### CHM 220E **Introduction to Physical Chemistry**, 2L, 1T

Description of physicochemical systems. First and Second Laws of thermodynamics. Equilibrium and the Third Law. Kinetic Theory. Reaction kinetics and the elucidation of reaction mechanisms. Electrochemistry and electrochemical cells. (May not be combined with PHY 221E.)

*Pre-requisites:* CHM 120E and P.I.

*Co-requisites:* MAT 235E/MAT 244F and APM 241s recommended

*Instructor:* J. M. Deckers

#### CHM 225ES **Principles of Chemical Spectroscopy**, 2L, 1T

Classical and quantum mechanical theories of radiation. Electrical

and magnetic properties of matter. Selection rules. Elements of electronic, vibrational, rotational, Mössbauer, ESR, NMR, and NQR spectroscopy. Elementary optics and properties of polarized light. Spectra of atoms and molecules. Chemical applications of Group Theory. Classical Lagrangian mechanics and vibrational and rotational spectroscopy.

*Pre-requisite:* P.I.

*Co-requisite:* CHM 220E

*Instructor:* M. Moskovits

**CHM 230ES Introduction to Inorganic Chemistry, 2L, 4P**

Ionic bonding and lattice structures and energies. Solution chemistry and solubilities. Covalent bonding and stereochemistry. Descriptive chemistry of hydrogen and the first period. Introduction to transition metal chemistry and metal complexes. (Formerly CHM 236ES, 1971-72 Calendar.)

*Pre-requisite:* CHM 120E

*Instructors:* G. A. Ozin and A. J. Poë

**CHM 240EF Introduction to Organic Chemistry, 2L, 4P**

The synthesis and reactivity of the major types of organic compounds, including elementary aspects of reaction mechanism and stereochemistry. The laboratory is intended to complement the lecture material and will introduce students to the theory and practice of basic laboratory techniques and methods of synthesis of organic compounds. (Formerly CHM 235EF, 1971-72 Calendar.)

*Pre-requisite:* CHM 120E

*Instructor:* I. W. J. Still

**CHM 245ES Introduction to the Chemistry of Natural Products, 2L, 1T**

Properties of Natural Products will be used as a basis for developing an understanding of the interaction of these molecules with biological systems. Many classes will be discussed in terms of their structures, properties and syntheses. Types of compound considered will include carbohydrates, amino acids, peptides, lipids, steroids and nucleic acids. (Formerly CHM 271ES, 1971-72 Calendar.)

*Pre-requisite:* CHM 240EF

*Instructor:* M. A. Winnik

**CHM 270EF Introduction to Biological Chemistry, 2L, 3P**

(Same as BIO 270EF)

Introduction to the physical properties of solutions and interfaces with



emphasis on techniques and theory pertinent to the chemistry of living systems. Colligative properties of solutions, interfacial phenomena, thermodynamics and equilibria, pH and buffers, elementary kinetics, oxidation and reduction.

*Co-requisite:* CHM 240EF

*Instructors:* Chemistry and Biology staff

- CHM 320E **Physical Chemistry, 2L, 4P** (8 hours every second week)  
 Basic postulates of quantum mechanics and symmetry problems. Wave mechanics and the chemical bond. Statistical mechanics. The solid and liquid states. Physical chemistry of surfaces. Photochemistry. The long laboratory period allows quite advanced experiments to be undertaken.  
*Pre-requisite:* CHM 220E, MAT 235/MAT 244F and APM 241S and P.I.  
*Co-requisite:* MAT 335 recommended  
*Instructor:* J. M. Deckers

- CHM 330E **Advanced Inorganic Chemistry, 2L, 4P**  
 Chemical applications of spectroscopy. Descriptive chemistry of the main group elements. Theories of bonding in transition metal complexes. Chemistry of metal carbonyls and nitrosyls, etc. Organometallic compounds and hydrides. Thermodynamics of complex formation. Mechanisms of reactions of metal complexes. Descriptive chemistry of transition metals. The laboratory course covers a wide range of synthetic and instrumental techniques and is associated with an informal programme of tutorials.  
*Pre-requisite:* CHM 230ES and P.I.  
*Instructors:* A. J. Poë and G. A. Ozin

- CHM 340E **Advanced Organic Chemistry, 2L, 4P**  
 The stereochemistry of organic compounds in relation to their physical and chemical properties and to factors affecting rates of reaction. Mechanistic aspects of organic reactions. The application of both stereochemical and mechanistic considerations to the synthesis of polyfunctional organic compounds in both lecture and laboratory. Organic compounds of nitrogen, sulfur, silicon and phosphorus.  
*Pre-requisite:* CHM 240EF and P.I. (CHM 245ES recommended)  
*Instructors:* I. W. J. Still and M. A. Winnik

- CHM 350E **Instrumental Methods in Chemistry, 1L, 1T, 3P**  
 This course is designed to provide an appreciation of the scope and limitations of some of the more useful techniques of instrumental analysis. A range of instrumental experience is available in the

laboratory to allow the student to direct his training according to his interests and/or needs. The lecture course will cover the basic theory behind many of the commoner instrumental methods, and will discuss general methods of approach to analytical problems and treatment of the results. (Biology, Earth Sciences and Physics students would find this course useful.)

*Pre-requisite:* CHM 230ES (CHM 270EF/CHM 220E recommended)

*Instructor:* TBA

CHM 360E **Biological Chemistry, 2L, 1T**

A lecture course in general biochemistry treating physical chemistry of proteins, enzyme reaction kinetics and mechanisms, metabolic processes and control mechanisms, biosynthetic pathways of small molecules, nucleic acids and protein synthesis, and bioenergetics. In the spring term each student will prepare a term paper, based on literature research in a topic of current biochemical interest, and will discuss it in a seminar.

*Pre-requisite:* CHM 240EF and CHM 220E/CHM 270EF (CHM 230ES recommended)

*Instructors:* M. A. Winnik, J. C. Poë

CHM 410 **Topics in Chemistry, 2L**

A series of topics covering major areas of current interest in inorganic, organic and physical chemistry such as organometallic chemistry, organic synthesis, spectroscopy, kinetics, organic and inorganic reaction mechanisms, and the chemistry of biochemically important molecules.

*Pre-requisite:* CHM 220E, 330E, 340E and P.I.

*Instructor:* Staff

CHM 415 **Dissertation Based on Literature Research**

The dissertation will be based solely on literature research of a given area and would be expected to occupy one-fifth of a student's programme. The dissertation will be conducted under the guidance of a chemistry faculty member on a topic other than the student's research topic in CHM 419.

*Co-requisite:* CHM 410 and P.I.

*Instructor:* Staff

CHM 419 **Introduction to Research in Chemistry**

An experimental or theoretical research problem in chemistry under the supervision of a member of the chemistry staff. The total time

involved would be of the order of 250 hours, and students, in addition to carrying out research on their own projects, would be encouraged to participate fully in the activities of their chosen research groups. A final report incorporating the aims and results of this research will be required.

*Co-requisite:* CHM 410 (CHM 415 recommended) and P.I.

*Instructor:* Staff

## CLASSICS

Faculty Adviser: Professor T. G. Elliott

Classics is the study of the civilizations of Greece and Rome. Courses are offered in four general areas: (1) Greek and Roman History (GRH). Courses offered in this area require no knowledge of the original languages. Upon petition to the Department of History students may receive credit for these courses toward the specialist degree in History. (Consult the regulations of the Department of History). (2) The masterpieces of ancient literature, read in translation (GLL). (3) Latin language and literature studied in the original (LAT). (4) Greek language and literature studied in the original (GRK).

Whether the student approaches Classics in the original languages or in translation, he will be introduced to intelligent people of another society trying to meet basic and universal issues. The efforts of these people are of interest in their own right. But they are also interesting in that they have been the foundation of so many aspects of our own civilization; of art, literature, philosophy, government. It is probably the value of Classics as a background for civilized thought in general which has produced the traditional opinion that it is a suitable preparation for a wide variety of careers. The student who is mainly interested in other subjects will find that courses in Classics present background material which is indispensable for the understanding of other studies in the Humanities, and thus for the understanding of our own civilization.

For a specialist programme a student is required to take ONE full course (or its equivalent in half courses) in first year, in each of GRK and LAT. In the three upper years TWO courses (or equivalent) are required in each language.

For programmes in Latin, or Greek, or Greek and Roman History, consult the Department.

In programmes in Latin and another subject (except Greek) the Latin component will be very similar to the Latin component of the Classics programme. Consult the Department of Classics and the Department teaching the other subject.

### GRK 100      **Introductory Greek, 3T**

A course designed to acquaint the student with the essentials of the Greek language and to introduce him to Greek literature.

*Instructor:* C. I. Reid

- GRK 120F    **Socrates on Trial, 3T**  
 A reading of Plato's *Apology of Socrates*. The course includes further study of the Greek language.  
*Pre-requisite:* XIII Greek or GRK 100  
*Instructor:* TBA
- GRK 123S    **The Wanderings of Odysseus, 3T**  
 A reading of Homer's *Odyssey*, Books 6, 9, 11. The course includes further study of the Greek language.  
*Pre-requisite:* XIII Greek or GRK 100  
*Instructor:* TBA
- GRH 101E    **The Classical Ideal and the Classical Experience, 2L, 1T**  
 This course deals with the social and political institutions of Greece and Rome from both historical and theoretical standpoints. The origins and development of these institutions, and their operation; the efforts to improve them; the crisis of the ancient civilization; classical culture and Christianity; are the themes presented.  
*Instructor:* T. G. Elliott
- GRH 200  
 (I)    **Greek History to the Death of Alexander the Great, 2L, 1T**  
 Political, social, economic and intellectual developments in the classical age of Greece.  
*Instructor:* C. I. Reid
- GRH 201E  
 (I)    **The History of Rome, 2L, 1T**  
 From the early republic to the late empire. This course concentrates upon the rise of Rome to world power in clashes with the Hellenistic kingdoms, and on the history of the empire after Augustus.  
*Instructor:* T. G. Elliott
- GRH 212    **The Roman Revolution, 2T**  
 A study of the transition from republic to principate, based upon original sources in translation.  
*Instructor:* T. G. Elliott
- GLL 190    **Greek and Roman Religion and Mythology, 2L, 1T**  
 The myths of Greece and Rome will be studied in connection with the religion of the ancient world. Attention will be focussed on the origin and development of the most important myths and their significance as inspiration for art and literature. In addition, the course



will include discussion of different schools of interpretation of mythology, and comparison of Greek and Roman myths to those of other cultures, particularly of the Near East and Northern Europe.

*Instructor:* C. I. Reid

- GLL 200     **Greek Drama in Translation, 1L, 1T** (Not offered 1972–73)  
 (I)     A study of the master playwrights of Ancient Greece whose works still rank among the greatest and most significant achievements of European culture. Reading and discussion of selected plays of Aeschylus, Sophocles, Euripides, Aristophanes and Menander. A production of a Greek play will be a part of this course if enough students are interested.

*Instructor:* R. L. Beck

- GLL 202s     **The Ancient Novel, 1L, 1T**  
 (I)     The development in Greece and Rome of an imaginative prose literature which anticipates the modern European novel. Greek romances such as Longus' *Daphnis and Chloe* and Heliodorus' *Ethiopica* present young love and sensational adventure in an idealised setting. Roman novels are represented by Petronius' *Satyricon*, which shows the culture of Nero's Italy as seen through the eyes of a homosexual trio, and Apuleius' *Golden Ass*, which recounts the experiences of a young man in Greece transformed into an ass. The *True History* of Lucian, an elaborate parody of travellers' tales, is an amusing forerunner of science fiction.

*Instructor:* R. L. Beck

- GLL 206E     **Socrates, 1L, 1T**  
 (I)     An examination of a critical moment in Greek intellectual and political life, as seen from various (ancient) points of view. Topics will include: the nature of Socrates' activity, the political background of his trial, the religious and social questions involved, and types of Socratic literature. Plato's *Euthyphro*, *Apology* and *Crito*, Aristophanes' *Clouds*, and selections from other ancient authors (especially Xenophon) will be read.

*Instructor:* R. L. Beck

- LAT 100     **Introductory Latin, 3T**  
 A course designed to acquaint the student with the essentials of the Latin language and to introduce him to Roman literature.

*Instructor:* R. L. Beck

- LAT 120S     **The Poetry of Catullus, 3T**  
 Selections from the works of Catullus, including both his love poems and his satiric epigrams. Includes further study of the Latin language.  
*Pre-requisite:* XIII Latin or LAT 100  
*Instructor:* R. L. Beck
- LAT 123F     **Cicero in Court, 3T**  
 A reading of Cicero's *Pro Caelio*, a speech dealing with a famous scandal in the social circle of Catullus' mistress, Clodia. The course includes further study of the Latin language.  
*Pre-requisite:* XIII Latin or LAT 100  
*Instructor:* T. G. Elliott
- LAT 219F     **Roman Comedy, 3T**  
 A study of Roman Comedy, based on the reading of a play by Plautus and a play of Terence.  
*Pre-requisite:* Any 100-series Latin course  
*Instructor:* TBA
- LAT 220S     **Lucretius, 3T**  
 A study of selected texts from Lucretius' philosophical poem *De Rerum Natura*.  
*Pre-requisite:* Any 100-series Latin course  
*Instructor:* TBA

## COMMERCE

Faculty Advisers: M. J. Hare, H. E. McCandless

The objective of the sequence in the Commerce courses is to help students develop the analytical and problem-solving abilities required for effective decision-making in business, government and society generally.

The basic Commerce courses introduce the accounting systems which provide the basis for information systems and illuminate the nature of the basic commercial structures and institutions in Canada. The Commerce courses offer the student a foundation on which to build managerial and professional skills.

Senior courses examine problems and issues in areas such as administration and organizational behaviour, marketing and the administration of government institutions and agencies.

It should be noted that some third year courses in Commerce are being offered at Erindale and therefore it is now possible for a student to concentrate in a

Commerce sequence. It is also expected that additional Commerce courses will be added for the 1973-74 academic year.

For those interested in professional accounting, some of the Commerce courses qualify for credits in the programme in chartered accountancy offered by the Institute of Chartered Accountants of Ontario.

Students who take a sequence of Commerce courses also frequently choose to enter law, graduate studies in business or economics, and teaching, or proceed directly into business careers or government service.

### *Commerce and Finance*

The programme in Commerce and Finance is currently offered only on the St. George campus. Students with high standing in first or second year may be accepted for advanced standing in the Commerce and Finance programme leading to the B.COM. degree.

First year students at Erindale who are interested in Commerce and Finance are advised to take COM 100, ECO 100 and MAT 135.

Second year students at Erindale who are interested in Commerce and Finance must take *six* courses which include COM 221F and COM 222s, ECO 200 and a sequence in Statistics.

Interested students should consult the Faculty Advisers.

- |          |   |
|----------|---|
| COM 100  | <p><b>Financial Accounting, 2L, 1T</b></p> <p>Emphasis is placed on the principles and concepts which underlie the preparation of financial statements. Problems of income measurement are also stressed.</p> <p><i>Instructor: TBA</i></p>   |
| COM 221F | <p><b>Management Accounting, 2L</b></p> <p>The course introduces management control through case discussions and a computerized management game and examines the relationship between cost, volume and profit; the elements of cost; overhead allocation; job order costs; process costs (including the problems raised by joint products and by-products); budgeting; predetermined costs (estimated and standard costs); and the theories of absorption and direct costing.</p> <p><i>Pre-requisite: COM 100</i></p> <p><i>Instructor: H. E. McCandless</i></p> |
| COM 222s | <p><b>Information Systems and Control, 2L</b></p> <p>The course includes information system theory, control theory and practice, relevant costs, responsibility accounting, and a survey of</p>   |

selected management science techniques. Through case discussions, the inter-relationships between information and control systems, managerial style and human behaviour are established.

*Pre-requisite:* COM 221F

*Instructor:* H. E. McCandless

**COM 300      The Legal Environment of Business, 2L (Not offered 1972-73)**

The course has two main purposes: to develop an approach to reaching decisions objectively, and to examine how the law, as an institution, accommodates business convenience and social policy. In addition, the course examines the nature of legal devices that are commonly encountered in the operation of a business. To a large degree the lecture periods take the form of class discussion of cases and of topical matters related to business law. In the event that space is inadequate, priority will be given to Third Year students. The course is also open to Second Year students at the discretion of the instructor if space is available and pre- and co-requisites are satisfied.

*Pre-requisite:* ECO 100

*Co-requisite:* COM 222S and P.I.

*Instructor:* TBA

**COM 320      Financial Accounting Theory and Policy, 2L**

An extension of financial accounting topics previously covered. This course emphasizes areas of current concern such as: inventory valuation; accounting for fixed assets and intangibles; corporate reorganizations; and inter-corporate investments. The case method of instruction is used extensively.

*Pre-requisite:* COM 222S

*Instructor:* TBA

**COM 323      Introduction to Public Administration, 2L, 1T**

This course is intended to introduce students to the literature of public administration and to some of the main issues of the present and recent past in Canada (and to a limited extent in Britain and other countries). In other countries primary emphasis will be on policies or features that have influenced Canadian practice.

*Pre-requisite:* COM 100 or POL 100

*Instructor:* TBA



**COM 332 Organizational Behaviour, 2L**

This course will examine how the interrelationship between tasks, authority positions and the needs of the individual governs effectiveness in organizations. Students will consider specifically problems of organization structure, interpersonal relations, attitudes, conflict and the management of change. The course will also examine briefly the relationship of organizations and their environments. Assigned reading, case studies and role-playing exercises will be used. Limited enrolment. May not be combined with COM 401.

*Pre-requisite:* COM 222s/P.I.

*Instructor:* H. E. McCandless

**COM 400 Marketing, 2L, 1T**

This course is designed to cover the structures and processes of the marketing system in the Canadian context. Areas of emphasis are consumer behaviour, marketing research and managerial decision-making in product policy, promotion and distribution.

*Pre-requisite:* COM 222s/P.I.

*Instructor:* TBA

**COM 421 Corporation Finance, 2L, 1T (Not offered 1972-73)**

The purposes of this course are to explain the financial environment within which Canadian companies operate, to develop the main principles of financial management, and to examine the social and legal significance of the corporation as one of the dominant institutions of modern society.

*Pre-requisites:* COM 222s and ECO 202

*Instructor:* TBA

## **COMMUNICATIONS**

Faculty Adviser: Professor P. P. M. Meincke

**CMM 220ES Communications I, 2L**

- (1) Fundamentals of information theory. The effect of technological developments on communications past, present and future. Communications among the lower animals. Sociological implications of communications and mass media.

**CMM 330E Deviance, Stigma and Communication, 1L, 1T (First Term),  
2T (Second Term)**

Three aspects of communication will be studied: (1) social deviance and its linguistic manifestations, e.g. identity management by use of special lexicons, professional jargons, *argots* ("slangs"), etc.; (2) identity manipulation and social stigma, i.e. the verbal aspects of the deviant-labelling process, e.g. name-calling, nicknames, "fighting-words" euphemisms, etc.; (3) deviant verbal behaviour by non-deviants, e.g. swearing, four-letter word games, pidgins, bilingualism, faddish and abusive borrowings from foreign languages, etc. The bulk of the work will be related to English speaking countries but attempts will be made to establish some universals of deviance and communication.

(The course will be structured to include one lecture and one tutorial in the first term. Specialists in related fields have agreed to give guest lectures and to participate in discussions. In the second term students will undertake "field research" and tutorials will be conducted during which progress and problems of research will be discussed. Enrolment limited to 20 students). *Open to students in second and higher years.*

*Instructor: A. L. Stein*

See also PHL 282s **Language and Communication, 2L**

## **DRAMA**

Faculty Adviser: Mr. J. Astington

Practical exploration of drama involves two related efforts of the imagination and intelligence: The understanding of the dramatist's or director's work in the play, and personal interpretation and creation of these effects in acting. The courses in drama given at Erindale deal with both these areas, and should appeal either to specialists in literature wishing to broaden their understanding of drama, or to students interested primarily in their own vocal and physical creativity, and its development.

**DRA 100E European Drama, 1L, 1T**

This course introduces the student to major non-English authors of western drama from its origins to the theatre of today. The course will consist of reading and discussion of a selection of works in translation (approximately 20 plays) by the following: Aeschylus, Sophocles, Euripides, Aristophanes, Plautus/Terence, Seneca, Lope de Vega/Calderon, Moliere, Racine, Goldoni, Goethe, Chekov, Ibsen, Pirandello, Lorca, Brecht, Ionesco, Genêt.

*Instructors: R. L. Beck and D. A. Trott*

**DRA 200E Drama through Acting, 2L, 3P**

The course will cover some basic areas of acting direction and production, using a variety of play texts. Through rehearsal, students will be expected to explore the major problems of interpreting drama in practical terms. Private preparation for group meetings will be expected, as well as participation in public productions. (Two two-hour seminars per week and one tutorial on rotation basis.)

*Pre-requisite:* P.I., by interview. Enrolment limited

*Instructor:* J. Astington

**DRA 300E Advanced Acting and Directing, 2L, 3P**

Detailed work on acting technique and the interpretation of the play text. Students will be expected to work on their own to a considerable extent, in preparation of scenes for group discussion, and to work on productions arising from the course. The work of DRA 200E will be continued in a more advanced and intensive way. (Two two-hour seminars per week and one rotating tutorial.)

*Pre-requisite:* DRA 200E or equivalent. Enrolment limited

*Instructor:* J. Astington

## **ECONOMICS**

Faculty Adviser: Professor M. J. Hare

Economics is a social science; that is, it is an exploration of the behavior of people in society and has a strong influence on the structure, well-being and development of a society.

The study of economics does not teach one to run a business; balance a family budget or make money on the stock market. More significantly it deals with the functioning of the economic system. Every nation, whatever its political orientation (totalitarian, socialist or capitalist) and whether it is technically advanced or not has to contend with these economic decisions.

In recent years economic research has been particularly concerned with the diagnosis of two inversely related phenomena; excessive unemployment and inflationary price increases. Stress has also been given to the underlying sources of economic growth in both the industrial nations and the low-income countries. In Canada, the problems of differential rates of regional development, the degree and impact of foreign ownership in Canadian industry and an equitable distribution of the tax burden are contemporary economic issues of significance.

The course sequence in Economics at Erindale is designed to accommodate the interests of both specialists and generalists. The specialist is required to take calculus and statistics in his early years. Those students who wish to become accredited

specialists must enrol as such in the Department of Political Economy and should see the Erindale Faculty Adviser in Economics to make these arrangements. The generalist has the opportunity of taking a minimum of economic theory before he is permitted to enrol in courses which discuss economic policy.

There is a broad interchange and overlap between the study of Economics and many other disciplines. There has been a long history on the St. George campus of joint majors in Commerce and Economics which can culminate in the programme in Commerce and Finance. Although the programme in Commerce and Finance is not offered at Erindale, an increasing number of Commerce courses is being added to the curriculum and joint concentration in Economics and Commerce is now possible. Students can also create sequences between Economics and Geography, History, Political Science, Sociology and Mathematics. Those who have specialized in Economics very often pursue graduate work in either Economics or Business. It also provides solid training in such fields as Law or for entry into industry, the government or teaching.

The *specialist programme* in Economics requires standing in at least 10 full courses in Economics, Mathematics and Statistics of which at least 8 are in Economics.

Students at Erindale are advised to see the Faculty Adviser in Economics if they wish to enrol in the specialist programme with the Department of Political Economy. With few exceptions the majority of pre-requisite courses in Economics are already offered at Erindale.

Students must take *all* of the following during the second, third and fourth years:—ECO 200/ECO 241s; ECO 202E/one of ECO 204F, 240F and one of ECO 205s, ECO 329s; ECO 220/STA 232; ECO 325F and 326s/ECO 332; ECO 322; at least one full course in Economic History: ECO 423—Senior Research Seminar in Economics.

Many of these courses use the St. George campus course numbers.

**ECO 100      Introduction to Economics, 3L, 1T**

A survey course with emphasis on the basic concepts in macro- and micro-economic theory; international trade and the techniques economists use to analyse problems. The concepts introduced will include: national income and its determination; monetary and fiscal techniques; business cycle determination; the derivation and use of supply and demand schedules; the theory of the firm and principles of comparative advantage and tariff protection.

*Instructors:* J. E. Floyd, J. E. Pesando, TBA

**ECO 200      Micro-Economic Theory, 2L, 1T**

An intermediate treatment of the basic tools of economic analysis with applications to a wide variety of economic problems in the area of pricing, resource allocation, income distribution, and welfare



economics. May not be combined with courses in the ECO 250 series.

*Pre-requisite:* ECO 100

*Instructor:* TBA

**ECO 201E Modern European Economic History, 2L, 1T**

The economic development of modern Europe, with emphasis on the industrialization process and agrarian change in major European countries with concentration on the period from 1750 to 1914.

*Co-requisite:* ECO 100

*Instructor:* S. M. Eddie

**ECO 202E Macro-Economic Theory, 2L, 1T**

A detailed discussion of the theory of output, employment and the price level; of the techniques available for achieving economic stability; of central banking and Canadian financial institutions and markets, and of foreign-exchange markets. May not be combined with courses in the ECO 250 series.

*Pre-requisite:* ECO 100

*Instructor:* J. A. Hynes

**ECO 221E North American Economic History and Development, 2L, 1T**

An examination of the evolving patterns of economic development in North America. Comparative study of the growth experience of the major sectors will be undertaken with the objective of explaining leads and lags in these sectors.

*Pre-requisite:* ECO 100

*Instructor:* W. T. Easterbrook

**ECO 230ES Quantitative Methods in Economics, 2L, 1T**

Problems in economics are analyzed using (and extending) the statistical techniques developed in STA 202EF. May not be combined with STA 232.

*Pre-requisites:* STA 202EF and ECO 100

*Co-requisites:* ECO 200, ECO 202E

*Instructor:* S. A. Rae

**ECO 250EF The Economics of the Third World, 2L (Not offered in 1972-73)**

Students will investigate the major economic obstacles which the low-income countries in Africa, Asia and Latin America encounter as they strive for economic development. Emphasis is placed on economic theories of development and their practical relevance in the

development process. The problem of financing economic development is central to this course. Students will also analyze the degree of inflation; the amount of tariff protection and foreign direct investment which low-income countries should permit, and the fundamental importance of the role of the agricultural sector. May not be combined with ECO 200 or ECO 202E.

*Pre-requisite:* ECO 100

*Instructor:* M. J. Hare

**ECO 251EF The Economics of Poverty, 2L, 1T**

A theory of poverty is first developed. This is used to analyze the causes of poverty and to assess the significance of this problem for those community goals relating to resource allocation, economic growth, stabilization and social justice. The Canadian poverty problem and anti-poverty policy is next evaluated in the context of this theoretical structure. Finally, a variety of policy reforms are critically examined. May not be combined with ECO 200 or ECO 202E.

*Pre-requisite:* ECO 100

*Instructor:* S. A. Rea

**ECO 252ES International Economic Problems, 2L (Not to be offered in 1972-73)**

The study of current problems in international economic affairs, including free trade between Canada and the United States, foreign ownership and control of the Canadian economy, the Canadian balance of payments and the foreign value of the Canadian dollar, and international monetary reform. May not be combined with ECO 200 or ECO 202E.

*Pre-requisite:* ECO 100

*Instructor:* TBA

**ECO 253EF Introduction to Labour Economics, 2L (Not to be offered in 1972-73)**

This course will concentrate on the determination of wages and the patterns of employment and unemployment in the economy. The influences of wage changes and unemployment on the problems of inflation and poverty will be examined, and alternative public policies will be considered. May not be combined with ECO 200 or ECO 202E.

*Pre-requisite:* ECO 100

*Instructor:* S. A. Rae

**The Economics of Environmental Deterioration, 2L, 1T**

**ECO 260ES**

An analysis of the misallocation of resources caused by different types

of pollutants. The course will stress both economic analysis and case studies.

*Pre-requisite:* ECO 100 or P.I.

*Instructor:* M. J. Hare

**ECO 324      Economic Development, 2L, 1T**

Emphasis is on the economic conditions of low-income countries and the prospects of their economic transformation. Frequent reference will be made to specific issues affecting the nations of Africa, Asia and Latin America.

*Pre-requisites:* ECO 200 and 202E or P.I.

*Instructor:* M. J. Hare

**ECO 328      International Economics and Policy, 3L**

An analysis of the nature, effects and policy implications of international trade and finance. The theories of comparative costs and reciprocal demand; factor reward equalization; balance of payments and foreign exchanges; international tariffs; liquidity; customs unions; and relevant topics related to current problems in international economic affairs.

*Pre-requisites:* ECO 200 and 202E or P.I.

*Instructor:* TBA

**ECO 336      Public Finance, 3L**

The construction of an economic theory of government to explain the determination of the budget and to provide an economic rationale for government intervention; an analysis of changing patterns of expenditure and revenue of federal and provincial governments; the development of criteria for the evaluation of expenditure programmes and the tax structure; the problems and techniques of fiscal stabilization.

*Pre-requisites:* ECO 200 and ECO 202E or P.I.

*Instructor:* J. A. Hynes

**ECO 350E      Applied Microeconomic Theory, 2L**

This course will present a wide variety of applications of basic micro-economic theory to problems of conservation, public goods, monopoly and industrial organization.

*Pre-requisites:* ECO 200 or P.I.

*Instructor:* J. E. Floyd

**ECO 351E      Monetary Theory and Policy, 2L**

Detailed examination of monetary economics, with emphasis on policy

implications. Topics in monetary theory to include: the role of money in the Classical and Keynesian models, the demand for money, the supply of money, the role of nonbank financial intermediaries, the term structure of interest rates. Topics in monetary policy to include: the impact of monetary policy, lags in the effect of monetary policy, debt management, and foreign-exchange considerations.

*Pre-requisite:* ECO 202E or P.I.

*Instructor:* J. E. Pesando

ECO 352E **Advanced Micro-Economics, Welfare and Growth, 2L**

The course focuses on theories and techniques of decision-making by firms and households. It examines the problem of measuring economic welfare and analyzes the main theories in economic growth.

*Pre-requisites:* ECO 200 and ECO 202E

*Instructor:* H. A. J. Green

ECO 360E **Economic Transformation and Technological Change, 2L, 1T (Not to be offered in 1972-73)**

An analysis of secular growth patterns in the industrial countries with emphasis on technological change and productivity increases.

*Pre-requisites:* ECO 200 and 202E or P.I.

*Instructor:* M. J. Hare

ECO 361EF **Labour Economics and Labour Relations, 2L**

This course examines the structure and government of trade unions and the collective bargaining process in Canada.

*Pre-requisite:* ECO 200 or P.I.

*Instructor:* A. Kruger

ECO 362ES **Economics of the Labour Market, 2L**

This course will examine the structure of the labour market and the determinants of relative and absolute wages. Specific influences to be considered include trade unions, technological change, education and training, labor mobility, and government manpower, income maintenance, and incomes policies.

*Pre-requisite:* ECO 200 or P.I.

*Instructor:* S. A. Rea

ECO 364EF **The Economy of the U.S.S.R. I, 2L (Not to be offered in 1972-73)**

The course begins with a history of the Soviet economy. It then analyzes the main economic institutions and policy instruments (planning, industrial organization, fiscal and monetary policy, price



policy) and surveys some important economic and functional sectors such as agriculture, industry, transportation, labour, and consumption. Finally, we study the major attempts to measure Soviet performance and consider the important problems facing the economy today.

*Pre-requisites:* ECO 200 and 202E/P.I.

*Instructor:* TBA

**ECO 365ES    The Economy of the U.S.S.R. II, 2L (Not to be offered in 1972–73)**

Description same as ECO 364EF.

*Pre-requisite:* ECO 364EF

*Instructor:* TBA

**ECO 366E    Agriculture and Economic Growth: Theory, History, Policy, 2L, 1T**

(Not to be offered in 1972–73)

The role of agriculture in economic growth, including analysis of models of agricultural development and land tenure and their effects on overall economic growth. Case studies to be drawn primarily from experience of European and East and Southeast Asian countries.

*Pre-requisite:* ECO 200/P.I.

*Instructor:* S. M. Eddie

**ECO 367E    Introduction to Econometrics, 2L, 1T (Not to be offered in 1972–73)**

A first course in econometrics, emphasizing the use of regression analysis in economic research. A variety of current policy issues will be used to illustrate the application, problems, and limitations of econometric methods. Students will be required to write a major essay, in which they will employ the regression techniques developed in the course.

*Pre-requisites:* ECO 200, ECO 202, ECO 230ES/STA 232

*Instructor:* J. E. Pesando

**ECO 400E    A Reading Course for Specialists**

Admittance only by permission of the Faculty in Economics.

### ENGLISH

Faculty Adviser: Professor R. Van Fossen

The study of English attempts to engage the mind, imagination and sensibility of the student in the literature of the English-speaking world, and in related literatures, both classical and modern. The sequence of English literature, from its beginnings (about the seventh century) to the present, constitutes a continuous tradition that reflects the vitality of an entire civilization—its political, social, religious, scientific,

and cultural life—and, in addition, presents a permanent record of the ways in which the human mind and imagination have responded to recurrent problems and situations. At the same time, each age gives rise to its own peculiar problems. The literature of the past and the literature of our own day can cast light upon the present and indeed upon the future. Literary studies can provide us with a fuller knowledge of ourselves and our world and with deeper insight into the nature of human experience.

More particularly, the undergraduate study of English in this University prepares the student for more advanced work in the discipline, appropriate standing in the English Language and Literature Programme qualifying the student, unconditionally, for graduate study in accredited universities of this country, of the United States and of the United Kingdom. In addition, it prepares its students for a Type A certificate programme for secondary-school teachers, particulars of which can be obtained from The College of Education, for work in journalism and in the publishing field, and for positions in business and in various departments of government.

Intending Specialists please consult the brochure of the Combined Departments of English.

**ENG 108      Forms of 20th Century Literature, 3L**

At least twelve and no more than fifteen works by twentieth century authors, including works by at least three novelists, three poets and three dramatists. These shall include works by at least six of the following authors: Conrad, Faulkner, Joyce, Lawrence, Woolf; Auden, Eliot, Frost, Stevens, Yeats; Albee, Beckett, O'Neill, Pinter, Shaw.

*Instructor:* Staff

**ENG 112      Major British Writers, 3L**

Selections from: Chaucer, Spenser, Shakespeare's non-dramatic poetry, Donne, Milton, Pope, Johnson, Wordsworth or Keats, Browning or Tennyson, Yeats or T. S. Eliot. Text: *The Norton Anthology of English Literature*, one volume ed. (Revised). Alternative or additional texts may be assigned by the instructor. At least three plays, including one by Shakespeare; Swift, *Gulliver's Travels*; one novel, novella, or group of short stories by each of: Fielding, Dickens or George Eliot, and Joyce or James. Additional works may be selected.

*Instructor:* Staff

**ENG 152      Canadian Literature in English, 3L**

An introductory survey of poetry, prose, and drama, including works

by such authors as the following: Moodie, Lampman, Haliburton, Grove, Leacock, Pratt, Birney, Callaghan, MacLennan, Lowry, Laurence, Richler, Reaney, Cohen, Atwood. Recommended reading: *The Book of Canadian Prose* (ed. Smith); *Canadian Anthology* (ed. Klinck & Watters, 2nd edition).

*Instructor:* Staff

ENG 165

**English Literature: Forms and Approaches, 3L**

The course will focus on particular works as representative of various kinds of literature (e.g., drama, poetry, novel) as well as critical approaches that have been developed for gaining a fuller understanding of literary works (e.g., structural analysis, study of imagery, psychoanalytic analysis). Texts: Shakespeare, *Hamlet*; Congreve, *The Way of the World*; selections from the poetry of Marvell; selections from the poetry of Hopkins; More, *Utopia* or Browne, *Religio Medici*; Emily Brontë, *Wuthering Heights*; Faulkner, *The Sound and the Fury*. Four more works which will extend the range of forms and make possible additional approaches.

*Instructor:* Staff

ENG 212

**Shakespeare, 3L**

- (I) Special study of *Romeo and Juliet*, *A Midsummer Night's Dream*, *Richard II*, *Henry IV*, Parts I and II, *Twelfth Night*, *Measure for Measure*, *Hamlet*, *Antony and Cleopatra*, *The Tempest*. Additions or substitutions may be made by the instructor. Duplication with English 332 will be avoided. Fulfills specialization requirement.

*Instructor:* Staff

ENG 218

**Major American Authors, 3L**

- (I) An introductory study of a number of American authors—no fewer than four and no more than six—chosen from different periods and so as to suggest something of the range of American literature. At least three of the authors should be drawn from the following list:

Hawthorne, Melville, Whitman, Mark Twain, James, Stevens, Eliot, Faulkner. Fulfills specialization requirement.

*Instructors:* T. Adamowski and D. B. Hill

ENG 220

**Varieties of Fiction, 3L (May be offered 1972–73)**

A study of selected fiction from various periods and genres, chosen to show the possibilities of fictional form and theme.

*Instructor:* Staff

- ENG 230     **Varieties of Drama, 3L**  
           (I)     Approximately twenty plays to be chosen from the different historical periods and genres. Reading lists available from the Bookstore. May not be combined with ENG 205—1971–72 Calendar.  
                   *Instructor:* U. Kareda
- ENG 240     **English Poetry, 3L**  
           (I)     A study of various forms, themes, styles and traditions. May not be combined with ENG 202—1971–72 Calendar.  
                   *Instructor:* R. Rower
- ENG 302     **English Poetry and Prose, 1500–1600, 3L** (Not offered in 1972–73)  
                   Poetry: Selections from the poetry of Wyatt and Surrey, Sidney, Marlowe, Shakespeare, Spenser (including *The Faerie Queene*, Book I, at least two other books, and the *Mutabilitie Cantos*) and Donne. Other poets may be added. Prose: More, *Utopia*; Sidney, *Defence of Poesy*. Selections from at least two of the following writers: Elyot, Ascham, Hakluyt, Hooker, Lyly, Sidney, (*Arcadia*), Nashe and Deloney. Additional reading from the following: Erasmus, *Praise of Folly*; Castiglione, *The Courtier*; Machiavelli, *The Prince*; Ariosto, *Orlando Furioso*.  
                   Fulfills specialization requirement.  
                   *Pre-requisite:* one previous course in English  
                   *Instructor:* Staff
- ENG 304     **English Poetry and Prose, 1600–1660, 3L**  
                   Selected poetry of Donne, Jonson and their successors; Milton. Prose by such writers as Bacon, Browne, Burton, Milton, Traherne.  
                   Fulfills specialization requirement.  
                   *Pre-requisite:* one previous course in English  
                   *Instructor:* R. R. McLeod
- ENG 306     **English Poetry, Prose and Drama, 1660–1800, 3L**  
                   Selections from the works of at least ten of the following: Addison, Boswell, Burke, Burns, Butler, Collins, Congreve, Cowper, Defoe, Dryden, Gay, Gibbon, Goldsmith, Gray, Halifax, Johnson, Pepys, Pope, Prior, Rochester, Sheridan, Smart, Steele, Swift, Thomson, Horace Walpole, Wycherley, Young.  
                   Fulfills specialization requirement.  
                   *Pre-requisite:* one previous course in English  
                   *Instructor:* B. Corman



- ENG 308     **Romantic Poetry and Prose, 3L**  
 Blake, Wordsworth, Coleridge, Byron, Shelley, Keats for special study; brief selections from other poets of the period such as Crabbe, Scott, Landor, Clare; Wordsworth, *Preface to Lyrical Ballads*, *Preface to the Edition of 1816*; Coleridge, *Biographia Literaria*; Shelley, *Defence of Poetry*; Keats, Selected letters; selected writings of Lamb and Hazlitt.  
 Fulfills specialization requirement.  
*Pre-requisite*: one previous course in English  
*Instructor*: V. A. De Luca
- ENG 312     **Chaucer, 3L**  
*Troilus and Criseyde*; selections from the *Canterbury Tales*; further selections from Chaucer's work.  
 Fulfills specialization requirement.  
*Pre-requisite*: one previous course in English  
*Instructor*: D. I. Lancashire
- ENG 322     **Fiction Before 1832, 3L (Not offered in 1972–73)**  
 At least twelve works, including one or more by each of Richardson, Fielding, Sterne, Jane Austen and Scott.  
 Fulfills specialization requirement.  
*Pre-requisite*: one previous course in English  
*Instructor*: Staff
- ENG 324     **Fiction, 1832–1900, 3L**  
 At least twelve works, including one or more by each of Dickens, Thackeray, Trollope, Emily Brontë, George Eliot and Hardy.  
 Fulfills specialization requirement.  
*Pre-requisite*: one previous course in English  
*Instructor*: D. B. Hill
- ENG 328     **Modern Novel, 3L**  
 At least fifteen works chosen from the period c. 1900–c. 1945 including one or more by each of the following: James, Conrad, Joyce, Lawrence, Faulkner.  
 Fulfills specialization requirement.  
*Pre-requisite*: one previous course in English  
*Instructor*: Staff
- ENG 332     **English Drama to 1642, 3L**  
 Examples of the miracle play, the morality play, the Tudor interlude,

early Tudor and Elizabethan tragedy, comedy and romance; Marlowe: two or more plays; Shakespeare: at least seven of the following: *Love's Labours Lost*, *Richard III*, *Much Ado About Nothing*, *As You Like It*, *Troilus and Cressida*, *Othello*, *Macbeth*, *King Lear*, *Coriolanus*, *The Winter's Tale*; two plays by Jonson, and a selection of works by at least six other Jacobean dramatists.

Fulfills specialization requirement.

*Pre-requisite*: one previous course in English

*Instructor*: D. I. Lancashire

ENG 338

**Modern Drama, 3L**

A minimum of twenty representative modern plays including one or more by at least five of the following: Ibsen, Chekhov, Shaw, Synge, Yeats, O'Casey, O'Neill, Eliot, Beckett, Pinter.

Fulfills specialization requirement.

*Pre-requisite*: one previous course in English

*Instructor*: U. Kareda

ENG 348

**Modern Poetry, 3L**

Hopkins, Yeats, Pound, Eliot, Stevens and other poets.

Fulfills specialization requirement.

*Pre-requisite*: one previous course in English

*Instructor*: R. Rower

ENG 354

**Canadian Poetry, 3L**

A minimum of fifteen poets from the nineteenth and twentieth centuries, at least nine of which to be chosen from the following: Crawford, Carman, Lampman, D. C. Scott, Pratt, F. R. Scott, A. J. M. Smith, Birney, Klein, Livesay, Layton, Avison, Purdy, Souster, Reaney. French Canadian poetry in translation may be included.

Fulfills specialization requirement.

*Pre-requisite*: one previous course in English

*Instructor*: M. J. Levene

ENG 356

**Canadian Fiction, 3L (Not offered in 1972-73)**

Selections from an anthology of short stories. A minimum of twenty works including at least one work by eight of the following authors: Haliburton, John Richardson, Sara Jeannette Duncan, Leacock, Grove, Callaghan, MacLennan, Lowry, Laurence, Susannah Moody, Richler. French Canadian fiction in translation may be included.

*Pre-requisite*: one previous course in English

*Instructor*: M. J. Levene

- ENG 368     **Victorian Prose, 3L**  
 Selected works of at least seven of the following: Arnold, Bagehot, Borrow, Butler, Carlyle, Coleridge, Darwin, Gosse, J. R. Green, Huxley, Macaulay, J. S. Mill, Morley, Morris, Newman, Pater, Ruskin, Wilde.  
 Fulfills specialization requirement.  
*Pre-requisite:* one previous course in English  
*Instructor:* Staff
- ENG 369     **Seminar in Writing, 3L**  
 Restricted to students who, in the opinion of the Department of English, show special aptitude for writing. Admission at the discretion of the Instructor.  
*Pre-requisite:* one previous course in English  
*Instructor:* J. Škvorecký
- ENG 372E    **The Political Novel in the Twentieth Century, 3L**  
 A study of the relation of political ideas to the form of the novel, with particular emphasis on potential conflicts arising from commitments to social function and literary tradition. The course will include works by: Conrad, James, Hemingway, Orwell, Koestler, Trilling, Upward, Warner, Malraux. Critical writings by: Lukacs, Sartre, Orwell, Spender, Caudwell.  
*Pre-requisite:* one previous course in English and P.I.  
 May not be combined with English 376E  
*Instructor:* M. J. Levene
- ENG 376E    **Black Humour**  
 Through the study of such authors as Albee, Celine, Faulkner, Grass, Heller, Ionesco, Nabokov, Orton, Purdy, Pynchon, Richler, Southern, Vonnegut and Waugh (and perhaps such precursors as Swift, Sterne and Voltaire), this course will attempt to define the assumptions, characteristics and purposes of the movement in twentieth century literature often called "Black Humour."  
*Pre-requisite:* one previous course in English and P.I.  
 May not be combined with English 372E  
*Instructor:* B. Corman
- ENG 466     **Comprehensive Examinations**  
 For description consult Departmental brochure.  
*Pre-requisite:* Normally *THREE* previous courses in English with at least "B" standing in *Each* course

- ENG 467     **Seminar in Literary Theory and Practice, 3L**  
 For description consult Departmental brochure.  
*Pre-requisite:* Normally *THREE* previous courses in English with at least "B" standing in *Each* course  
*Instructor:* R. R. McLeod
- ENG 469     **Senior Essay**  
 A scholarly project, chosen by the student, approved by the college department, and supervised by one of its instructors.  
*Pre-requisite:* Normally *THREE* previous courses in English with at least "B" standing in *Each* course  
*Instructor:* Staff

## FINE ART

Faculty Adviser: TBA

Through introductory courses in the visual arts, the student can gain perspective on major art forms such as architecture, sculpture, and painting, and can concurrently discover and develop his own artistic potential in a variety of media.

In historic surveys of art, by means of illustrated lectures and through reading and the study of reproductions, the student can become acquainted with the impact on art of major intellectual, religious, and social trends in past and present cultures. He will also develop an awareness of composition, color, design, and technique. Such studies complement related disciplines, of which history, philosophy, and literature are examples.

Specialization in Fine Art can lead to professional work in galleries or museums, teaching at the high school or college level, or careers in illustration and design, or independent artistic activities. For post-graduate work in the history of art, a reading knowledge of French and German and, depending upon specialization, Italian or Latin and Greek, is required; this can most easily be obtained during the undergraduate years.

A special programme in Art Education is conducted in co-operation with Sheridan College of Applied Arts and Technology. After four years of a combined Fine Art and Studio Art course the student will obtain a B.A. degree in preparation for teaching art in Ontario secondary schools. Credits in studio art are obtained by enrolling for such courses which are held in the afternoon at Sheridan College of Applied Arts and Technology. Selected students may enroll for up to five credits in Studio Art during the course of their degree programme, although no more than two such credits may be taken during any one year. The remaining arts and science credits will be taken from the regularly scheduled courses offered by Erindale College.



- FAR 101      Ancient Art, 2L, 1T**  
 A survey of the art of Greece and Rome. Emphasis is placed upon the importance of architecture and the arts as characteristic expressions of their age; this concept is illustrated by detailed study of the outstanding monuments.  
*Instructor:* T. G. Elliott
- FAR 200      European Art from 1400 to 1750, 3L**  
 A selective survey of the concepts and problems involved in the transition from Late Medieval to Renaissance in Italy and Northern Europe, and of subsequent artistic and cultural developments with special emphasis on the seventeenth century.  
*Instructor:* TBA
- FAR 201      European Art from 1750 to 1940, 3L (Not offered in 1972-73)**  
 A survey of modern art from the beginnings of Neo-Classicism to World War II, in architecture, sculpture and painting.  
*Pre-requisite:* FAR 200  
*Instructor:* TBA

## FRENCH

Faculty Adviser: Professor D. A. Trott

The impact of French culture on the world as we know it has been profound and lasting. Indeed, no understanding of European and even North-American patterns of thought may be said to be complete without a prior understanding of the contributions made to these patterns by Frenchmen on both sides of the Atlantic. The French programme at Erindale College offers students a wide range of courses designed to provide both the tools and basic material for the study of our French heritage.

For students wishing to pursue a programme built on previous language training and leading to a high level of competence in French, we offer a continuing series of language courses (FRE 120, 271 and 371) using modern methods and maximizing the individual's contact with his instructor. For those wishing a full programme of French Studies, our introductory and upper-year offerings in linguistics and literature completely satisfy the requirements for a four-year specialist degree in French Language and Literature. These offerings include the study of French as a language system, the study of various critical approaches to literature, and the study of both French and French-Canadian literatures.

There is great flexibility built into the programme, with few pre-requisites or

co-requisites for most courses. In special cases pre-requisites will be waived if a student can satisfy the department that he is able to undertake the programme.

In addition to its usefulness as a means of communication, French can also lead to careers in the civil service, international agencies, translation and interpreting, teaching, as well as to advanced studies in North American and European universities.

The *specialist programme* in French Language and Literature requires standing in a minimum of ten FRE courses taken as part of a four-year programme. No more than two of these courses may be from each of the following groups: FRE 120–142; FRE 390. At least two of these courses must be chosen from those open to third- and higher-year students. A mark of at least 70% must be achieved in each of at least seven FRE courses. It is highly recommended that a student take at least four courses outside the French Department.

To fulfil the Department's requirements in language proficiency a student must: (a) pass a special University examination in written French, normally to be taken during the Third Year; and (b) pass a University oral examination, also normally to be taken during the Third Year. To fulfil the Department's requirements in French linguistics a student must successfully complete at least one of FRE 372, 373, 374 or Independent Study (FRE 390) on a linguistics or stylistic topic. Students planning a teaching career are strongly encouraged to take FRE 372. To fulfil the Department's literature requirement a student must successfully complete at least four literature courses (not including FRE 120), one of which must be primarily devoted to texts prior to 1800, and one of which must be primarily devoted to texts after 1800. Students intending to take upper-level literature courses are urged to take FRE 140 or 142.

**FRE 120      Introduction to University French Studies, 3T, 2P**

The major part of this course, designed to facilitate the acquisition of the linguistic skills necessary for active participation in courses offered by the department, is devoted to language practice. However, as well as class and laboratory work in language, attention may also be given to readings and discussions.

*Pre-requisite:* Gr. XIII French

*Instructor:* Staff

**FRE 140      Studies in Modern French Literature, 1L, 1T**

Based on a detailed study of specific works selected from the novel, drama and poetry of the 19th and 20th centuries this course is intended as a practical introduction to the techniques of literary criticism and analysis. Four novels, two plays and four collections of poetry will be selected from the works of Constant, Balzac, Stendhal, Hugo, Musset, Baudelaire, Verlaine, Mallarmé, Alain-Fournier,

Apollinaire, Mauriac, Sartre, Camus, Eluard, Char, Anouilh, Ionesco, Butor, etc.

*Pre-requisite:* Gr. XIII French

*Co-requisite:* FRE 120

*Instructor:* TBA

FRE 142

**Man and Society in French Fiction, 1L, 1T**

Studies in 20th century French and French-Canadian fiction with special emphasis on the theme of man in society. Attention will also be given to techniques of literary criticism and analysis. Texts will be selected from the works of Gide, Saint-Exupéry, Malraux, Sartre, Camus, Savard, Roy, Langevin, Thériault, Ferron, etc.

*Pre-requisite:* Gr. XIII French

*Co-requisite:* FRE 120

*Instructor:* M. I. Raine

FRE 271

**Language Practice, 3T, 1P**

A continuation of FRE 120, this course is designed to further the student's competence in both written and oral French. The programme will include grammar, composition, debate, pattern drills and language laboratory work. Strongly recommended for both the specialist and the non-specialist.

*Pre-requisite:* FRE 120

*Instructor:* Staff

FRE 320

**The Literature of Classicism, 1L, 1T (Not offered in 1972-73)**

A study of the major writers of the 17th century with emphasis upon aesthetic and moral characteristics which constitute "classicism".

*Pre-requisite:* FRE 120

*Instructor:* P. R. Findlay

FRE 322

**Literature of the Enlightenment, 1L, 1T (Not offered in 1972-73)**

A study of the revolution in social, political, religious and intellectual values which characterized the literature of the 18th century. Its principal authors—Montesquieu, Voltaire, Diderot, Rousseau—raised issues which neither the Revolution nor the 20th century has satisfactorily resolved.

*Pre-requisite:* FRE 120

*Instructor:* A. L. Stein

FRE 328E

**Symbolism and Surrealism, 1L, 1T**

A study of two major movements in French literature which have

deeply affected modern trends in Western culture. Pursuing a desire to transcend the limits of our world, through their lives and works, the poets of the late 19th and early 20th centuries (Baudelaire, Rimbaud, Mallarmé, Valéry, Apollinaire, Breton, Aragon, Eluard) carried out a spiritual quest which continues to lend its flavour to our modern times.

*Pre-requisite:* FRE 120

*Instructor:* M. I. Raine

**FRE 330      The Literature of French Canada, 1L, 1T**

A study of selected novels, drama and poetry. The texts will be studied from the historical, sociological and aesthetic points of view.

*Pre-requisite:* FRE 120

*Instructor:* C. Cloutier-Wojciechowska

**FRE 352      French Drama from 1600 to 1800, 1L, 1T**

The comedies and tragedies of 17th-century France rank among the finest works of classical literature. The theatre of the 18th century is important in that it reflects a growing disenchantment with classical dramaturgy and the shift to realism that characterizes modern drama. Specific plays by Corneille, Molière, Racine, Lesage, Voltaire, Marivaux Sedaine and Beaumarchais.

*Pre-requisite:* FRE 120

*Instructor:* D. A. Trott

**FRE 354      French Drama from 1800 to 1950 (Not offered in 1972-73)**

A study of modern drama from the Romantics to the Existentialists. This course will attempt to trace the evolution of the French stage through a detailed study of plays by Hugo, Musset, Rostand, Feydeau, Jarry, Claudel, Ghelderode, Cocteau, Giraudoux, Anouilh, Sartre and Camus.

*Pre-requisite:* FRE 120

*Instructor:* D. A. Trott

**FRE 362      Prose Fiction from 1600 to 1800, 1L, 1T**

A study of the evolution, in the 17th and 18th centuries, of the novel as a literary form and as a social phenomenon, using some of the most representative works of the period. Includes novels by Mme de La Fayette, Prévost, Voltaire, Diderot and Rousseau.

*Pre-requisite:* FRE 120

*Instructor:* P. R. Findlay



- FRE 364      Prose Fiction from 1800 to 1900, 1L, 1T**  
 A study, through the close analysis of specific texts, of the ways in which such major writers as Balzac, Stendhal, Flaubert, Maupassant and Zola developed the techniques of the novel while exploring such varied themes as ambition, alienation and class struggle.  
*Pre-requisite:* FRE 120  
*Instructor:* TBA
- FRE 366      Prose Fiction from 1900 to 1950, 1L, 1T**  
 The course includes the study of the works of Proust, Gide, Malraux and Sartre. Attention is focused on the ways in which 20th-century writers have experimented with the forms of the novel while exploring the intellectual and psychological conflicts of this century.  
*Pre-requisite:* FRE 120  
*Instructor:* TBA
- FRE 368      Contemporary French Literature, 1L, 1T**  
 A study of the novel and theatre since circa 1950 with special reference to "le nouveau roman" and "l'anti-théâtre". This course will include works by Robbe-Grillet, Butor, Sarraute, Beckett, Ionesco, Genêt, and additional reading from other authors.  
*Pre-requisite:* Any French course numbered 271 or higher  
*Instructor:* C. Cloutier-Wojciechowska
- FRE 371      Language Practice, 3T, 1P**  
 A continuation of FRE 271, designed to advance the student's competence in written and spoken French. Recommended as preparation for specialist examinations in French.  
*Pre-requisite:* FRE 271  
*Instructor:* Staff
- FRE 372      The Structure of Modern French, 1L, 1T**  
 An introduction to French linguistics: the study of phonological, morphological and syntactical systems of contemporary French. Strongly recommended for students preparing for a teaching career in French language.  
*Pre-requisite:* FRE 120  
*Instructor:* M. Ducretet
- FRE 373      General History of the French Language, 1L, 1T**  
 The principal aspects of the language of Northern Gaul from earliest

to modern times. A general view of phonetic, morphological, syntactical, and semantic evolution; regional, dialectal and social variations; attitudes of men of letters (writers, grammarians, scholars); political and social history.

*Pre-requisite:* FRE 120

*Instructor:* A. L. Stein

**FRE 374      Introduction to the Stylistics of French, 1L, 1T (Not offered in 1972-73)**

The study of stylistic aspects of contemporary spoken and written French.

*Pre-requisite:* FRE 120

*Instructor:* H. H. Weinberg

**FRE 390      Independent Study**

Individual work with a member of staff on a literary or linguistic topic of common interest. Intended to accommodate students who already possess the background necessary to embark on a more intensive study of a specific area. Students may if they wish arrange to study two topics, each of which will be considered as constituting a half course.

*Pre-requisite:* Any French course numbered 271 or higher

*Instructor:* Staff

## **GEOGRAPHY**

Faculty Advisers: Professor W. Harrison, Professor H. F. Andrews

Geography deals with the surface of the earth and with the plants, animals, and people that dwell upon it. Its basic objective is to describe and explain the reciprocal relations of man and his environment. Geography thus uses principles and methods common to the physical, social, and life sciences.

It is recognized that many students may come to Erindale with little knowledge of geography, while others will enter with a lively curiosity already sharpened and focused by an excellent high school experience. A number of Geography courses are freely open to all students but for those who intend to specialize in Geography several integrated programs are offered, including General Geography, Canadian Studies, Urban Studies, and Environmental Geography.

Intending specialists in any programme in Geography must obtain standing in at least nine GGR courses, including GGR 202EF, GGR 271E, GGR 301EF, and either GGR 471E or 491E. Those specializing in Environmental Geography must choose GGR 471E and also obtain standing in GGR 373E. Specializing students are advised to elect at least two GGR courses in each term or to follow one of the streams suggested below. Members of the staff in Geography will advise students concerning

specialization and the courses which are most appropriate to their specific interests. The following courses in Geography may be included in a B.Sc. programme:  
GGR 213E, 271E, 301EF, 311E, 315E, 318E, 373E, 375E, 377EF, 471E, 481E, 491E.

### **Suggested Streams in Geography**

The Programme in Arts and Science offers a great number of courses for student selection. Faced with such a variety, many students have difficulty in selecting an appropriate sequence. To assist in making choices the following programmes are suggested for consideration. In addition it may be possible for individual programmes to be designed in consultation with the staff in Geography.

*General Geography:* Students should take the core courses listed above plus other courses selected in consultation with staff: GGR 213E, GGR 241E, GGR 253E, GGR 315E, GGR 351E, and GGR 363E are amongst those suggested.

### *Environmental Geography:*

- Year I GGR 171E, GGR 213E, BIO 110E, plus PHY 110 or MAT 110EF (or 110ES) and 1 or 1½ options.
- Year II GGR 202EF, GGR 271E, GGR 241E, BIO 230 plus 1½ options from CHM 120E, PHY 110, MAT 120EF (or 120ES), MAT 110EF (or 110ES), and ECO 260ES or EPS 240ES.
- Year III GGR 318E, GGR 373E, GGR 375E, GGR 377EF, GGR 379ES, plus 1 option.
- Year IV GGR 471E, GGR 378ES, BIO 330E or BIO 332E or BIO 431E, and 1½ options.

### *Urban Studies:*

- Year I GGR 171E, GGR 241E, plus 3 options which might include ECO 100, POL 100 or SOC 101.
- Year II GGR 202EF, GGR 231E, GGR 271E, plus 2½ options which might include other GGR courses, ECO 200 or SOC 205.
- Year III GGR 301EF, GGR 341E, GGR 345E, plus 2½ options which might include other GGR courses or SOC 328ES.
- Year IV GGR 491E, plus options, which might include other GGR courses or POL 413EF.

### *Canadian Studies:*

- Year I GGR 171E, GGR 241E, plus 3 options such as ANT 241E, ECO 100, HIS 205E, POL 100, or SOC 101.
- Years II GGR 202EF, GGR 231E, GGR 271E, GGR 301EF, GGR 315E, GGR 333ES, and III GGR 351E, plus 4½ options which might be other GGR courses, ECO 221E, ENG 152, HIS 307E, HIS 308E, or others.
- Year IV GGR 491E, plus 4 options.

**N.B.** Nine GGR courses satisfy the requirements for a current Type A Certificate of Education provided a further 5 courses are taken in related fields.

- GGR 171E **Man-Environment Interactions, 2L, 1T**  
 As time passes, the activities of man are altering the natural environment ever more significantly. Similarly, the degraded environment affects the quality of life for all mankind. The course considers the spatial organization of man's activities in pursuit of social and economic goals and examines the impact of man's activities on the atmosphere, hydrosphere, lithosphere, and biosphere. Social responses to altered environments are considered throughout. (May not be combined with GGR 111E/GGR 131E of 1971-1972 Calendar.)  
*Instructors:* T. F. McIlwraith and W. Harrison
- GGR 202EF **Statistics, 2L, 2T**  
 (Same as STA 202EF)  
 The purpose of this course is to acquaint beginning students in Geography with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about population on the basis of samples. (Tutorials for GGR 202EF will emphasize problems peculiar to geographical data.)  
*Co-requisites:* GGR 271E  
*Instructor:* D. Andrews
- GGR 213E **Climatology, 2L, 2P**  
 (I) Brief review of meteorological processes; world distribution of temperature, wind, and rainfall; the general circulation of the atmosphere and its variations; climates of the earth. (First year students only may not combine with GGR 241E.)  
*Instructor:* TBA
- GGR 231E **Introduction to Spatial Analysis, 2L, 2P**  
 Studies of the location and distribution of man's activities in space: models of human response to the natural and social environment in structuring patterns of agricultural, manufacturing, service, trade, transportation, and urban systems.  
*Pre-requisites:* GGR 171E or equivalent or GGR 241E (1971-72)/P.I.  
*Instructor:* H. F. Andrews
- GGR 241E **Urban Canada, 2L, 2P**  
 (I) An introduction to urban studies through an examination of the development and character of the urban fabric and urban life in Canada. May not be combined with GGR 241E (1971-72)/GGR 203EF/204ES (1970-71). First year students only may not combine with GGR 213E.  
*Instructor:* TBA



- GGR 253E Cultural Geography, 2L, 1T**  
 A review of the man/environment relationship in which the importance of cultural differences is emphasized. Special attention will be given to the ways in which non-western and pre-industrialised peoples have used and modified their environments. (May not be combined with GGR 105EF, 106ES in 1970–71 Calendar.)  
*Instructor:* A. R. Byrne
- GGR 271E Methods of Environmental Analysis, 2L, 2P**  
 Field and laboratory methods and instruments employed by geography and related sciences in the study of environmental problems, both human and natural. Encompasses cartography, aerial photography, field methods, monitoring instruments, interviewing, computer data reduction, and data display by charts, graphs, and tables. (May not be combined with GGR 203E or GGR 205E in 1971–72 Calendar or GGR 201EF, 202ES in 1970–71 Calendar.)  
*Pre-requisites:* GGR 171E/111E/131E (1971–72 Calendar) or P.I.  
*Co-requisites:* GGR 202EF or P.I.  
*Instructors:* J. C. Munday and Staff
- GGR 301EF Field Studies, 3P**  
 Direct out-of-doors investigation of physical and socio-economic phenomena; field observations and samples collected during a week-long field camp in September are analysed and reports submitted. Cost is about sixty dollars per student, which covers transportation and accommodation.  
*Pre-requisites:* GGR 203E/GGR 205E (1971–72) or P.I.  
*Instructor:* Staff
- GGR 311E Conservation Strategies, 2L, 2P (Not offered in 1972–73)**  
 Use, depletion, and waste of resources, primarily energy. Alternative strategies for resource husbandry and pollution control.  
*Pre-requisites:* GGR 271 or GGR 203E or GGR 205E (1971–72) or P.I.  
*Co-requisites:* An introductory course in Chemistry, Physics, E.P.S., or Biology recommended.  
*Instructor:* J. C. Munday
- GGR 315E Resource Development Problems, 2L, 2P**  
 A series of specific studies in the problem of resource utilization under various environmental conditions, with emphasis upon Canadian problems. (May not be combined with GGR 201ES from 1969–70 Calendar.)  
*Pre-requisite:* Any two GGR courses or P.I.  
*Instructor:* D. F. Putnam

- GGR 318E     **Man and Vegetation Change, 2L, 1T**  
 A review of the relationships between plants, animals and their changing environments. Special attention will be given to an evaluation of the significance of man's role as an agent of vegetation change.  
*Pre-requisites:* GGR 111E or BIO 100E or BIO 110E or P.I.  
*Instructor:* A. R. Byrne
- GGR 333ES     **Transportation Geography, 2L, 2T**  
 Principles of transport and land use; characteristics of transportation networks and movements; transportation and economic development, past and present; geographical aspects of contemporary transportation problems. (May not be combined with GGR 304ES from 1970-71 Calendar.)  
*Pre-requisites:* GGR 231E or P.I.  
*Instructor:* T. F. McIlwraith
- GGR 341E     **Urban Systems Workshop, 1L, 3P**  
 Detailed enquiries of a limited range of topics in urban geography. Possible areas of study include: perception of the urban environment and image; modelling aspects of a system of cities; political processes in urban areas; contributions to an "Atlas of Toronto"; urban-rural fringe studies.  
*Pre-requisites:* GGR 231E; GGR 241E or SOC 205E or P.I.  
*Instructor:* H. F. Andrews
- GGR 345E     **Urban Studies, 2L, 2T**  
 An examination of selected topics in urban studies. Possible areas of study include: urbanization; urban and regional planning, urban transportation; housing and renewal.  
*Pre-requisites:* GGR 271E; GGR 231E or SOC 205E or P.I.  
*Instructor:* TBA
- GGR 351E     **Historical Geography of Northeastern North America, 2L, 2T**  
 Social and economic development and change north of Chesapeake Bay west through the Great Lakes area to the edge of the grasslands, from the time of first European contact; evaluation of the land by successive generations of observers and users is of central interest in this course.  
*Pre-requisites:* Any two full GGR courses or P.I. A Canadian or American History course would be desirable.  
*Instructor:* T. F. McIlwraith

- GGR 363E **Regional Studies, 2L, 1T**  
 Topics in the geography of a nation or part of the world to be specified.  
*Pre-requisites:* One Geography course/P.I.  
*Instructor:* TBA
- GGR 373E **Remote Sensing of Environment, 2L, 2P**  
 Principles, instruments, and methods of remote data collection and analysis. Cameras, infrared scanners, microwave radiometers, radar, and other similar instruments used on aircraft and satellites.  
 Applications to social and physical geography, geology, forestry, agriculture, oceanography, hydrology, and meteorology. (May not be combined with GGR 205E in 1971-72 Calendar.)  
*Pre-requisites:* PHY 110 recommended/P.I.  
*Instructor:* J. C. Munday
- GGR 375E **Land-Use Hydrology, 2L, 2P**  
 Introduction to hydrology. Management of water and watersheds using the Credit River watershed as an example.  
*Pre-requisites:* STA 202EF/GGR 202EF/MAT 135E/P.I.  
*Instructor:* TBA
- GGR 377EF **Computer Analysis of Environmental Data, 2L, 2P**  
 Research design. Multiple regression, Fourier, and spectral analysis of field data; preparation of trend maps. (May not be combined with GGR 211E in 1971-72 Calendar.)  
*Pre-requisites:* GGR 203E/Co-requisite GGR 202EF/P.I.  
*Instructors:* W. Harrison and Staff
- GGR 378ES **Futures Research and Geographic Planning, 2L, 1P**  
 Predicting and planning the future of large dynamic systems such as world resources, geographical regions, or biological populations. A cybernetic approach with discussion of stability, homeostasis, regulatory feedback and control.  
*Pre-requisites:* GGR 377EF or P.I.  
*Instructor:* J. C. Munday
- GGR 379ES **Man-Environment Strategies, 1L, 4P (Not offered 1972-73)**  
 An examination of individual and group decision-making in conflict situations concerning environmental resources. The course will utilize a range of gaming models which attempt to simulate these situations.  
*Pre-requisites:* GGR 271E; GGR 231E strongly recommended  
*Instructor:* H. F. Andrews

- GGR 471E     **Environmental Case Studies** (two course credits), 2L, 6T  
 Each year the students and faculty participating in the course select a small area of southern Ontario for intensive study. Teams are formed to investigate specific aspects of environmental modification. Each student writes a comprehensive environmental report that reflects his team's contribution. (May not be combined with GGR 491E.)  
*Pre-requisites:* Six GGR courses or P.I. Open to fourth year students only  
*Instructors:* W. Harrison and Staff
- GGR 481E     **Advanced Reading Seminar**, 1T  
 Topics to be determined by interest. (May not be combined with GGR 471E.)  
*Pre-requisites:* P.I. Open to fourth year students only  
*Instructor:* Staff
- GGR 491E     **B.A./B.Sc. Thesis**  
 A research project, each student working on a topic of his choice under the individual guidance of a member of the staff. Copies of the thesis are to be submitted by March 1, and the student will present it before an examining committee. (May not be combined with GGR 471E.)  
*Pre-requisites:* Six GGR courses. Open to fourth year students only  
*Co-requisite:* GGR 481E  
*Instructors:* H. F. Andrews and Staff

### **GEOLOGY AND GEOPHYSICS** **(Earth and Planetary Sciences)**

Faculty Advisers: Professors K. C. Burke, R. W. Macqueen and Dr. H. C. Halls

The great and varied area of Canada and its extensive coasts make Geology and Geophysics important subjects in this country. The mining and petroleum industries which are among the country's largest have traditionally been major employers and are continuing to expand. In 1968 Canadian Universities provided only 35% of the geologists required in the country and nearly two-thirds of newly employed geologists came from abroad. There is always an unfulfilled demand for geophysicists.

In the past ten years worsening pollution problems, better understanding of the causes of such disasters as earthquakes and hurricanes, scientific expeditions to the moon and the realization that the continents are indeed drifting have aroused great interest in problems related to our physical environment.

To meet these needs and to train graduates for the many jobs which exist in Canada Erindale offers a broad spectrum of courses in the earth sciences. First year courses in all programmes are similar to permit deferment of decisions about



specialization until students are aware of the range of possibilities within the earth sciences. Most of the elementary courses in geology and geophysics are open to all students but for those who wish to specialize in later years three streams are suggested below:

(1) *Geology*

- Year I EPS 100E, MAT 110EF and 120ES or MAT 135, PHY 110 or PHY 120E, plus two options (CHM 120E recommended).  
 Year II EPS 210E, EPS 230E, EPS 250E, plus two options.  
 Year III EPS 310EF, EPS 320ES, EPS 330EF, EPS 340ES, EPS 350EF, EPS 360ES, plus two options.  
 Year IV EPS 420E, EPS 430E, plus three options.

(2) *Geology and Geophysics*

- Year I EPS 100E, MAT 110EF and 120ES or MAT 135, PHY 110 or PHY 120E, plus two options.  
 Year II EPS 210E, EPS 230E, EPS 250E, plus two options (MAT 244F and PHY 220E recommended).  
 Year III EPS 310EF, EPS 320ES, EPS 330EF, EPS 340ES, SUR 210E, plus two options (PHY 226E, APM 251ES or APM 246ES, CSC 108F recommended).  
 Year IV EPS 410E, EPS 420E, EPS 430F, plus two options.

(3) *Geology and the Environment*

- Year I EPS 100E, GGR 171E, MAT 110EF and 120ES or MAT 135, plus two options (CHM 120E, PHY 110 or PHY 120E recommended).  
 Year II EPS 210E, EPS 230E, EPS 240ES, plus 2½ options (EPS 220, GGR 202EF recommended).  
 Year III EPS 320ES, EPS 330EF, GGR 311E, GGR 373E, plus two options (GGR 375E, GGR 377EF, GGR 379ES recommended).  
 Year IV EPS 430E, GGR 471E, plus two options.

Because many geological and geophysical problems involve precise measurement of earth properties or processes, earth sciences are enhanced at Erindale by emphasis on outdoor studies and by the Survey Science programme.

The environmental geography programme offers a further wide selection of courses in natural resources, conservation, environmental management and remote sensing. Further combinations including links with Biology may be possible. Students are advised to consult members of the staff in Geology and Geophysics about specialization and selection of courses appropriate to specific interests.

**EPS 100E Introduction to Earth Science, 1L, 1T, 3P**

An introduction to the properties and behaviour of the earth. Topics to be discussed include the shape, motion and internal structure of the earth; the fundamental physical and chemical processes occurring

within it; and the changes in the earth's surface in response to these processes, of which sea floor spreading and continental drift are dominant.

*Pre-requisites:* XIII Physics and Chemistry recommended

*Instructors:* H. C. Halls, J. T. Wilson

EPS 210E

**Elementary Mineralogy and Petrology, 1L, 3P**

The classification of major rock-forming minerals and the use of crystal chemistry to explain their optical, morphological and physical properties. Description and identification of sedimentary, igneous and metamorphic rocks both in hand specimens and with the aid of the microscope. A one-day trip to mineral collecting localities on the Canadian Shield provides an opportunity to examine minerals in their natural setting.

*Pre-requisites:* XIII CHM, EPS 100E

*Co-requisite:* EPS 100E if not taken previously

*Instructor:* D. H. Gorman

EPS 220E

**Evolution and Geochronology, 1L, 1T, 2P (Not offered 1972–73)**

An introduction to nucleosynthesis, the age of the earth, the origin of life and a survey of isotope geochronology and evolution.

*Pre-requisite:* EPS 100E

*Instructors:* D. Collins and R. M. Farquhar

EPS 230E

**Structural Geology, 1L, 1T, 3P**

The mechanical properties of crustal materials and their response to changing physical conditions; the geometry of geologic structures and reconstruction of their development.

*Pre-requisite:* EPS 100E

*Co-requisite:* EPS 210E

*Instructor:* R. W. Macqueen

EPS 240ES

**Earth Processes and Man's Environment, 1L, 1T, 2P**

The interaction of man's activities with his physical environment; man as an instrument of geologic change. The course includes an examination of prediction and monitoring of volcanism and utilization of volcanic heat; earthquake prediction and control, slope stability and landslides; man-made landforms and their physical effects; fluid withdrawal and land subsidence; underground storage and waste disposal.

*Pre-requisite:* EPS 100E/GGR 111E (1971–72 Calendar)/P.I.

*Instructor:* R. W. Macqueen

**EPS 250E Earth History, 1L, 3P**

An introduction to the principles and techniques used to establish ages of rocks. Examination of the rock record and of the earth processes which have operated through time. A one week trip to the Gaspé area immediately following final examinations is illustrative of the principles and techniques of field geological studies and amplifies many of the concepts studied.

*Pre-requisite:* EPS 100E

*Co-requisite:* EPS 210E

*Instructor:* K. C. Burke

**EPS 310EF Geophysical Methods, 1L, 3P**

An introduction to geophysical methods of studying the earth including the principles, instrumentation and interpretation of results. These methods include measurements of gravity, the present and past geomagnetic field, natural seismic waves, terrestrial heat flow, the age of rocks by radiometric methods, and both seismic and electromagnetic waves which have been artificially generated.

*Pre-requisites:* EPS 100E, PHY 110/120E

*Instructor:* H. C. Halls

**EPS 320ES Marine Geology, 1L, 3P**

The morphology, structure and evolution of the ocean basins and the methods employed for studying them.

*Pre-requisite:* EPS 210E

*Instructors:* The Staff

**EPS 330EF Economic Geology, 1L, 1T, 3P**

An introduction to the genesis and occurrence of mineral deposits and the factors that determine their economic viability.

*Pre-requisite:* EPS 210E

*Instructors:* TBA

**EPS 340ES Mineral Exploration, 1L, 1T, 2P**

A course with some practical work in the field outlining the methods of geophysical and geochemical prospecting and their relative merits and limitations in the exploration for specific types of mineral deposits.

*Pre-requisites:* PHY 110/120E; EPS 210E

*Co-requisite:* EPS 310EF

*Instructor:* H. C. Halls

- EPS 350EF Principles of Paleontology, 1L, 1T, 2P**  
 The origin of life and evolution of the major groups of macro- and microfossils. Paleoecology, faunal communities and extinction. The spatial and temporal distribution of selected marine invertebrate groups in relation to global tectonics and continental drift.  
*Pre-requisite:* EPS 220E  
*Instructor:* TBA
- EPS 360ES Paleoenvironments, 1L, 1T, 2P**  
 Determination of ancient environments; their distribution in time and space, and their significance in relation to the evolution of the lithosphere and biosphere. A trip during reading week to the Florida-Bahamas area will illustrate modern sedimentary processes and environments.  
*Pre-requisite:* EPS 220E  
*Co-requisite:* EPS 350ES  
*Instructor:* R. W. Macqueen
- EPS 410E Advanced Physics of the Earth, 1L, 1T, 3P (Not offered 1972–73)**  
 An advanced continuation of course EPS 310 EF, with particular attention to the structure and behaviour of the earth's interior as deduced by geophysical methods.  
*Pre-requisites:* EPS 310EF, PHY 220E  
*Instructor:* D. J. Dunlop
- EPS 420E The Evolution of the Earth's Crust, 2L, 3P**  
 An outline of world geology based particularly upon comparative studies of shields, platform and shelf deposits, mountain belts, island arcs and ocean basins. A one week trip before first term to the Precambrian terrain of the Thunder Bay area, Northwestern Ontario, will illustrate concepts and approaches discussed in the Geology programme.  
*Pre-requisites:* EPS 230E, 310EF  
*Co-requisites:* EPS 350EF and 360ES  
*Instructors:* J. T. Wilson and K. C. Burke
- EPS 430E Frontiers of Earth Science, 1L, 2T**  
 A seminar course which examines new concepts and models in earth science.  
*Pre-requisites:* Any four half-courses from EPS 310–360 inclusive  
*Instructors:* The Staff



**EPS 440E B.Sc. Thesis (2 course credits)**

A student research project, under the supervision of the staff. Copies of thesis are to be submitted by March 1st.

*Pre-requisites:* As for course EPS 420E

*Instructors:* The Staff

**GERMAN**

Faculty Adviser: Professor W. Meyer-Erlach

Through the media of language and literature undergraduate courses in German offer the interested student access to an important part of Western Civilization.

LANGUAGE study includes phonetics, oral expression, translation, and composition. Advanced audio-visual aids make best use of the variety of material and the ease of learning while still allowing for personal student-instructor contact. Great care is taken to involve the language student with important economic, social, political, scientific, and cultural issues. This ensures a significant immersion for the serious German scholar as well as others who require reading knowledge only.

Ranking with the finest achievements of the human mind are the works of authors like Lessing, Goethe, Schiller, Hölderlin, Novalis, Grillparzer, Heine, Keller, Hesse, Mann and Brecht. They form an illustrious gathering linking *the LITERATURE of the German speaking countries* to world literature.

The serious student is well advised to adopt at least the core sequence GER 130, GER 210, GER 220, plus courses from the 300 and 400 group. Such a programme will give him the choice of specializing in German at any time of his undergraduate career without forcing him to make an irreversible decision before he is ready.

Qualified students are encouraged to investigate the benefits of *Third Year Studies Abroad*. These benefits are cumulative since the student continues to be enrolled with the University of Toronto-Erindale College and receives full credit for the year upon completion of special assignments while pursuing his particular interests at a German university.

An even more attractive alternative for those who do not wish to spend a full year abroad is the FOURTH SUMMER PROGRAMME OF G.A.C.E. (*the German Academic Club of Erindale*) which is affiliated with the CANADIAN-GERMAN-ACADEMIC-EXCHANGE-ASSOCIATION. The C.G.A.E.A. is a non-profit organization assisted by the various levels of government in Canada and the Federal Republic of Germany. Working, studying and travelling for three months will greatly enhance the student's knowledge of another culture and improve his ability to communicate while enabling him to earn at least part of his tuition for a continuation of his studies upon his return to Erindale College.

**GER 105 Basic German A, 2T, 2P**

Elementary instruction for all students with little or no knowledge of

the language who wish to read, write and speak German.

*Instructor:* Staff

**GER 110      Language Practice I, 2T, 2P**

Intensive guidance in learning to write and speak German. Materials used in the tutorials and practice sessions of this course will introduce the student to the cultural and socio-political background of the German speaking countries.

*Pre-requisite:* 3 years of German taken at a secondary school in the Province of Ontario/P.I.

*Instructor:* Staff

**GER 120      Modern Literature, 2L, 1T**

Topical works in modern German Literature, with emphasis on the 20th Century, will be investigated under the theme: *The author as a seismograph of society.*

*Pre-requisite:* 3 years of German at a secondary school in the Province of Ontario/P.I.

*Instructor:* Staff

**GER 130      Introduction to University German, 1L, 1T, 1P**

Beginning where Grade XII/XIII left off, this course focuses on *language* but does not neglect *literature* and as *the core course in first year* it permits continuation of either. The student's motivation and performance will be rewarded by rapid progress and, if proven early, by the possible combination with more advanced courses, such as GER 210 and/or GER 220. A special section is available to the dedicated evening student.

*Pre-requisite:* 3 years of German at a secondary school in the Province of Ontario/P.I.

*Instructor:* Staff

**GER 205      Basic German B, 2T, 1P**

The continuation of GER 105 with consideration for the needs of individual students and their special interests. Also suitable for those who have taken German before and require a refresher course in this language.

*Pre-requisite:* GER 105/P.I.

*Instructor:* Staff

**GER 210      Language Practice II, 2T, 1P**

The *intermediate* stage of a sequence that begins with GER 110.

An intensive course for those who are interested in gaining an active command of the language with the aid of relevant sources of information.

*Pre-requisite:* GER 105/P.I.

*Instructor:* Staff

GER 220

**Enlightenment and "Storm and Stress", 2E, 1T**

The encounter of a static and a dynamic period in 18th Century German Literature. A study of the works of the German *Aufklärung* and *Sturm und Drang* culminating in Goethe's *Faust* (Part One).

*Pre-requisite:* GER 120/P.I.

*Co-requisite:* GER 130, if taken in *First Year* with P.I.

*Instructor:* Staff

GER 310

**Language Practice III, 2T, 1P**

The *advanced* course in a sequence especially designed for students aiming at a thorough knowledge of stylistics and for fluency of expression in a realistic setting.

*Pre-requisite:* GER 210/P.I.

*Instructor:* Staff

GER 320

**"Geist Der Goethezeit", 2L, 1T (Not offered in 1972-73)**

This course is a continuation of GER 220. It entails the study of works of the mature Goethe, Schiller and some of their important contemporaries. The focal point is *Faust II*.

*Pre-requisite:* GER 220/P.I.

*Co-requisite:* GER 220 if taken in *Second Year* with P.I.

*Instructor:* Staff

GER 321

**Nineteenth Century Prose and Poetry, 2L, 1T (Not offered in 1972-73)**

Prose and poetry in German Literature from late Romanticism to Naturalism with emphasis on Realism. This course includes major works of such authors as Heine, Stifter, Storm, Keller, Fontane, Meyer and Raabe.

*Pre-requisite:* GER 220/P.I.

*Co-requisite:* GER 220 if taken in *Second Year* with P.I.

*Instructor:* Staff

GER 325

**Romanticism in Life and Literature, 2L, 1T**

At no other time was the life of the *German intelligentsia* so intimately intertwined with literary pursuits than in the so-called *Romantic* period. This fruitful and ambiguous relationship will be explored and

some of its important manifestations investigated.

*Pre-requisite:* GER 220

*Co-requisite:* GER 220 if taken in second year with P.I.

*Instructor:* Staff

GER 410 **Language Practice IV, 2T, 1P**

The terminal course in the undergraduate language sequence concerned with refinements of usage and the theory and practice of *Publizistik*.

*Pre-requisite:* GER 310

*Instructor:* Staff

GER 420 **Prose and Poetry 1885–1945, 2L, 1T**

A consideration of significant writers in modern German Literature such as Nietzsche, George, Hofmannsthal, Thomas Mann, Rilke, Hesse, Kafka, Stadler, Heym and Trakl.

*Pre-requisite:* GER 220/P.I.

*Co-requisite:* GER 220 if taken in *Second Year* with P.I.

*Instructor:* Staff

GER 421 **Modern Drama, 2L, 1T (Not offered in 1972–73)**

An examination of the development of this genre in German literature from the early 19th Century until the present; it includes such authors as Nestroy, Büchner, Gerhart Hauptmann, Wedekind, Kaiser, Sternheim, Brecht, Peter Weiss and Dürrenmatt.

*Pre-requisite:* GER 220/P.I.

*Co-requisite:* GER 220 if taken in *Second Year* with P.I.

*Instructor:* Staff

GER 422 **Contemporary Literature, 2L, 1T**

German Literature in the second half of the 20th Century and its re-integration into *Weltliteratur*. Included are such authors as Seghers, Nossack, Boll, Celan, Aichinger, Borchert, Grass, Martin Walser, Hans Magnus Enzensberger and Kunert.

*Pre-requisite:* GER 220/P.I.

*Co-requisite:* GER 220 if taken in *Second Year* with P.I.

*Instructor:* Staff

GER 429E **Directed Reading and Study**

This course is reserved for those who have completed, or are in the process of completing, the requirements for specialist standing. It will prepare the student for specialization at the postgraduate level by



deepening his appreciation of essential aspects of German literature, in the context of cultural, socio-political, and historical developments.

Fourth year students only.

*Pre-requisite:* Completion of specialist requirements

*Instructor:* Staff

## HISTORY

Faculty Adviser: Professor A. C. Gluek

A recent University of Toronto publication suggests that, *Every subject taught in a university has a social context. History, in particular, is relevant to the study of disciplines no matter how specialized. The study of history leads the student into the records of mankind. This past illuminates, although it may not directly guide, the conditions of the present. To have no interest in history is to have no interest in the present, no reasonable view of the future and no analysis of oneself.*

Both in response to a greater demand and a larger enrolment, the basic course in Western Civilizations will be supplemented by new offerings in Canadian, American and European history. This opportunity for concentrated work in specialized areas of interest will provide our students with a more balanced programme, thereby giving them an opportunity to discover that history is not only a dialogue between past and present but, as has already been indicated, a tool for self-understanding and further intellectual growth. Students interested in Greek and Roman history should consider GRH 200 and 212, for which credit as history courses may be received upon petition to the History Department.

In addition, a history concentration can provide students with the requisite mental discipline and analytic skills for work in a variety of chosen fields, from teaching and the law to a career in the civil service and journalism.

### Specialist Programme:

Students who seek to specialize in History are required to enrol with the Department. A Specialist Programme in History is a four-year programme which includes at least nine full-year courses or equivalent from the offerings of the Department. Courses from other departments (normally not more than three) may be substituted for History courses with the approval of the Specialist Programme Committee. Within this general prescription: (a) the nine courses must be chosen from a minimum of three areas; (b) in each of two areas a minimum of two three hundred or four hundred series courses must be chosen; (c) of the nine courses, at least two must deal exclusively with periods preceding the year 1815. The old Specialist regulations, seven courses in History not including HIS 100, continue to apply to those students who entered the University in September 1969 or before.

The Department's courses fall into the following areas: Canadian, U.S.A., British,

Latin American, East Asian, European, East European and Russian, and History of Science and Technology.

Students should note that, in meeting these requirements, (1) the Erindale historians have added new courses and will alternate courses in succeeding years, (2) certain courses have been cross-listed (Spanish history and Greek and Roman history), and (3) up to two courses per year may be taken at the St. George campus. It should also be noted that some related courses in other disciplines may, upon petition to the Erindale historians, be accepted as substitutes for the above.

- HIS 100E     **Europe and the World, 1789–1969, 2L, 1T**  
 Modern Europe from the French Revolution to the 1960's with special emphasis on Europe's relations with other parts of the world. Political, economic, social and cultural aspects will be covered.  
*Instructor: M. Dafoe*
- HIS 200E     **The United States 1607–1972, 2L, 1T**  
 (I)     An introduction to American History, from the earliest colonial settlements to the present. The emphasis will be on social and political developments.  
*Instructor: W. B. White*
- HIS 203E     **Latin America—Survey, 2L, 1T**  
 The history of Latin America: political, social, economic and cultural. Special emphasis may be given to particular countries.  
*Instructor: D. Raby*
- HIS 204E     **Italy—Survey, 2L, 1T (Not offered in 1972–73)**  
 A general survey of the history of Italy: political, social, economic and cultural.  
*Instructor: C. La Vigna*
- HIS 205E     **Canada 1663–1967, 2L, 1T**  
 (I)     A survey of the political, social and economic history of Canada, topically treated.  
*Instructor: A. C. Gluck*
- HIS 206E     **Russia—Survey, 2L, 1T**  
 A general survey of the history of Russia: political, social, economic and cultural.  
*Instructor: R. E. Johnson*
- HIS 301E     **Canadian Parties & Politics Since 1867, 2L (Not offered in 1972–73)**  
 An examination of federal and provincial politics with special

emphasis on the electoral process and the developing sociology of the Canadian party system.

*Instructor:* D. Morton

**HIS 302E    Ethnicity in American History, 2T**

The seminar will consider the extent to which the United States has been a "melting pot", including migrations to and settlement patterns in America, concepts of nationality and race, and problems of assimilation and acculturation. Black history and Indian-white relations will also be discussed, although the focus will be on non-Anglo-Saxon immigrants.

*Pre-requisite:* P.I. (Preference will be given to third and fourth year students)

*Instructor:* W. B. White

**HIS 303E    International Relations 1870–1960, 2L**

The international relations of the European powers at their zenith and in decline. The economic and social framework will be examined as well as the political conflict.

*Pre-requisite:* P.I. (Preference will be given to third and fourth year students)

*Instructor:* M. Dafoc

**HIS 304E    Social Revolutions in Latin America: Mexico, Bolivia, and Cuba, 2L**

A comparative study of three major revolutions, the Mexican of 1910, the Bolivian of 1952 and the Cuban of 1959. The course will entail some reading of literature on revolutionary theory, nationalism and problems of underdevelopment.

*Pre-requisite:* P.I. (Preference will be given to third and fourth year students)

*Instructor:* D. Raby

**HIS 305E    Industrialization and Ideological Response, 2L**

The impact of industrialization on 19th and 20th Century Europe and the intellectual response to the altered economic, social and political structure.

*Pre-requisite:* P.I. (Preference will be given to third and fourth year students)

*Instructor:* C. La Vigna

**HIS 306E    19th Century Britain, 2L, 1T (Not offered in 1972–73)**

The major themes of British history from the late 18th Century:

the emergence of industrial society, the fate of aristocracy, religion, cultural and intellectual change, foreign relations, constitutional development and political history.

*Instructor:* M. Dafoe

- HIS 307E     **Canadian History from Contemporary Issues, 2L**  
 The examination of Canadian contemporary problems in their historical context.  
*Pre-requisite:* P.I. (Preference will be given to third and fourth year students)  
*Instructor:* D. Morton
- HIS 308E     **Canadian History: The Canadian-American Relationship, 2L**  
 Lectures, recitations, and readings during the first term. During the second, students will prepare, present, and comment upon papers dealing with particular subjects in the Canadian-American relationship from 1783 to the present.  
*Pre-requisite:* P.I. (Preference will be given to third and fourth year students)  
*Instructor:* A. C. Gluek
- HIS 309E     **The Foreign Policy of the United States (Not offered in 1972-73)**  
*Pre-requisite:* P.I. (Preference will be given to third and fourth year students)
- HIS 310E     **Topics in Russian Social History, 2L**  
 The seminar will examine several interpretations of social and economic change by applying each of them to different historic moments in the nineteenth and twentieth centuries.  
*Pre-requisite:* P.I. (Preference will be given to third and fourth year students)  
*Instructor:* R. E. Johnson
- HIS 312E     **The Renaissance, 2L**  
 A cultural history of the 15th and 16th centuries set against the socio-economic background. The course will concentrate upon the development of the Renaissance in Italy and will deal with its manifestations in Northern Europe.  
*Instructor:* C. La Vigna
- HIS 313E     **Italy from Unification to Fascism, 2L, 1T**  
 A study of the problems surrounding the unification of Italy and the



unified state with emphasis upon social questions. The period covered will be from approximately 1800 to 1945.

*Instructor:* C. La Vigna

**HIS 315E Mexico: Independence to Revolution, 1810–1960, 2T**

A seminar considering the growth of the Mexican nation from the struggle for independence to the “institutional revolution” of today.

*Pre-requisite:* P.I.

*Instructor:* D. L. Raby

**HIS 338 From Empire to Welfare State, 2L, 1T**

The major political, economic, and social changes in Britain in the 20th century. Special attention will be given to imperial and foreign policy and the creation of the welfare state.

*Instructor:* M. Dafoe

**HIS 364 Canada and War, 1867–1967, 2T**

Canada’s experience with war and military institutions since Confederation, with special emphasis on the social and political implications.

*Pre-requisites:* HIS 205E or POL 100

*Instructor:* D. P. Morton

**HIS 393 Twentieth Century Spanish History, 2L (Not offered in 1972–73)**

Same as SPA 393

*Instructor:* J. Webster

**HIS 394E Survey of Spanish History, 1469–1815, 2T**

Same as SPA 394

*Instructor:* J. Webster

**HIS 401E Independent Reading**

An independent study of area of particular interest to the student, carried out under the supervision of a staff member.

*Pre-requisite:* P.I.

*Instructor:* Staff

**HIS 402E Historiography Seminar, 2L**

A study of the historian and his craft: attention will be given to important historians from classical times to the present as well as to historical source material and research methods.

*Pre-requisite:* P.I.

*Instructor:* Staff

- HIS 486      **History of Rome from the Republic to the Principate, 2L, 1T**  
 Same as GRH 212.  
*Instructor: T. G. Elliott*

### INTERDISCIPLINARY STUDIES

These are courses that overlap the traditional interests of two or more disciplines.

- 1) Some of these courses are given two separate numbers and are found under their respective categories. e.g. Introduction to Biological Chemistry is listed under BIO 270EF and CHM 270EF; Modern Symbolic Logic is listed under MAT 204EF and PHL 250F.
- 2) Other courses which were grouped here in last year's calendar now have sections of their own, such as Communications courses and Drama courses.
- 3) There are only two courses at present in this section: INE 100—University 100 and LIN 200—Linguistics.

#### INE 100      **University 100, 6T, 3 credits**

University 100 is a unique project at the University of Toronto for educating first-year students and is offered exclusively at Erindale College. It is equivalent to *three* regular first year subjects. Enrollment is limited to forty students with two full-time instructors plus a large number of part-time resource personnel drawn from diverse disciplines from within the College. The purpose of the programme is to give students time to pursue their own interests and discover their talents. More specifically, students and staff inquire into the common principles of thought and reasoning that underlie traditional academic subjects. Emphasis is placed on such skills as perceptive reading, organizing and relating data, and drawing correct inferences.

Under the general theme of *Myths and Models*, students and instructors examine key works related to man's idea of himself and his civilization. They examine such questions as, What are the personal and historical biases that control our conception of reality? How have changing interpretations of the nature of man and the world influenced actions and institutions? What views of human freedom are found in Plato, the Bible, Freud, and McLuhan? Within the general framework of the programme students are expected to pursue independent work aided by participation in small discussion groups and directed individual study. A wide variety of media are employed, with a sparing use of formal lectures. Central to the concept underlying University 100 is the exercise of individual and group autonomy; many of the decisions about the conduct of the programme are the responsibility of the students. Students and instructors work together to develop a community of learning.

The programme prepares students to pursue specialized studies in most courses during their upper years. For further information consult with Mr. M. Lavelle (828-5286).

**LIN 200      Introduction to General Linguistics, 1L, 1T**

This course aims at describing certain universals in the phonological, morphological, syntactic and semantic structures of language. The principal purpose is not to indoctrinate the student in any particular school of linguistic thought but rather to acquaint him with the various possibilities of analyzing the components of language.

Since the course's primary goal is to serve as a valuable tool for students of English and foreign literatures, languages, psychology, anthropology, sociology, communications, etc., a multi-disciplinary approach will be used throughout the presentation of material.

*Instructor: TBA*

### **ITALIAN**

Faculty Adviser: Mr. L. T. McCormick

Italian is a worthy and even indispensable aid to studies of other literatures, especially French, Spanish and English. "Exciting" may seem a trite adjective, but one can certainly be swept along by the study of the Renaissance in Italy. A first-hand study of Machiavelli's own writings will also serve to rescue him from standard misinterpretations, and reading Michelangelo's literary works will complete one's view of his overall genius. And so one could continue from the beginnings of Italian literature to the present creative surge.

One can also mention the inherent beauty of spoken Italian with its vastly varying dialects from the top to the bottom of the "boot".

A fuller comprehension of the literary, linguistic, cultural and historical facets of Italian civilization is the goal of our programme of studies.

Graduates in Italian are in demand and will continue to be. Knowledge of another language and culture is regarded favourably by other disciplines and is frequently required for graduate-level studies. There are career opportunities in teaching, foreign affairs, trade and law.

It should be noted that, for the academic year 1972-73, a division has been made in ITA 100 and ITA 201 between "dialect speakers" and "non-dialect speakers". This has been done in order to meet the particular needs of each group.

The following courses are considered "core courses" and therefore, necessary for specialists: ITA 201, ITA 202, ITA 300 and ITA 340Y. The balance of courses necessary for specialization may be chosen from available courses at Erindale and at St. George. In order to qualify for the M.A. programme in Italian at the University of Toronto, matriculants will need seven courses in Italian, non-matriculants will need eight.

Type A certification in Italian requires a student to have nine courses in Italian or for dual-certification a minimum of six courses in four years of university study.

**ITA 100(A) Beginning Italian for Dialect Speakers, 3L, 2P**

Grammar, translation, oral work, with a view to providing basic conversational and writing skills. For dialect speakers.

*Instructor:* P. Marchese

**ITA 100(B) Beginning Italian for Non-dialect Speakers, 3L, 2P**

Grammar, translation, oral work, with a view to providing basic conversational and writing skills. For non-dialect speakers.

*Instructor:* P. Marchese

**ITA 201E(A) Continuing Italian—for Dialect or Native Speakers, 2L, ½T**

For dialect or native speakers. A comprehensive review of Italian grammar based on readings from a literary text. Creative writing and conversation are an integral part of this course. Required for specialists.

*Pre-requisites:* ITA 100A/Gr. XIII ITA and P.I.

*Instructor:* P. Marchese

**ITA 201E(B) Continuing Italian, 2L, ½T**

Designed for those whose background in Italian is solely academic. Required for specialists.

*Pre-requisites:* ITA 100B/Gr. XIII and P.I.

*Instructor:* L. T. McCormick

**ITA 202E Modern Italian Short Stories and Plays, 2L**

The short story ("novella"), so vitally important throughout Italian literature, should both interest and delight. Selections include "novelle" by Verga, Buzzati, Moravia, and others. Also to be read are plays by authors such as: Giacosa, Pirandello and Betti. Required for specialists.

*Pre-requisites:* ITA 100/Gr. XIII ITA and P.I.

*Instructor:* L. T. McCormick

**ITA 300E Italian Literature, 2L, 1T**

A survey of Italian Literature from its beginnings to approximately 1600. It serves as an introduction to the poetry and prose, and the types and styles of Italian literature. Dante, Petrarch, Boccaccio,



Machiavelli are some of the authors to be discussed. Required for specialists.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* L. T. McCormick

ITA 310ES **Dante's Inferno, 2L, 1T**

Dante's *Inferno* has been translated into many languages and many times into English. Its influence is well known and continues in the twentieth century through Ezra Pound and T. S. Eliot and even LeRoi Jones.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* G. Mazzotta

ITA 311EF **The Decameron of Boccaccio, 2L, 1T**

A comprehensive study of Boccaccio's major work; the morality and the humour which make it stand out from its own time.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* G. Mazzotta

ITA 313EF **Petrarca, 2L, 1T**

Why has Petrarch's poetic influence been felt by so many writers of so many countries (i.e. Ronsard in France, Garcilaso in Spain, Donne in England, Hooft in Holland, Bärghio in Sweden, etc.)? We will seek to answer this question by a study of Petrarca in his prose as well as in his *Rime*.

*Pre-requisite:* ITA 201E

*Instructor:* G. Mazzotta

ITA 321E **The Italian Epic in the Sixteenth Century, 2L, 1T (Not offered in 1972-73)**

Ariosto's *Orlando furioso* and Tasso's *Gerusalemme liberata* influenced such famous writers as Cervantes, Spenser, Milton and Montaigne. The reasons will appear after a detailed study of the two works, each having similarities and differences in spirit and substance. Ariosto writes of women, knights, arms, loves and wild adventures and Tasso declares his intent to treat of a spiritual cause but has difficulty restraining his sensual self.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* L. T. McCormick

ITA 323ES **Machiavelli and Castiglione, 2L, 1T (Not offered in 1972-73)**

This course will concentrate on the *Principe* of Machiavelli and the

*Cortegiano* of Castiglione and place them in their historical and literary context while giving them a close analytical reading.

*Pre-requisite:* ITA 201

*Instructor:* L. T. McCormick

ITA 340EY **Creative Italian I, 1L, ½T**

Advanced language course which will touch on stylistics. Translation from English to Italian is discouraged. Emphasis on vocabulary building is handled within the context of Italian only. Fulfills specialization requirement.

*Pre-requisite:* ITA 201E (A or B)

*Instructor:* P. Marchese

ITA 360E **Twentieth Century Novel and Drama, 2L, 1T**

Svevo, the novelist from Trieste who was discovered by James Joyce, will be the first of a series of novelists to be studied. Others will include Pirandello, Silone, Vittorini and Moravia. The germ of the present-day French theatre of the absurd is to be found in the earlier Teatro Grottesco with its dramatists such as Rosso di San Secondo and Chiarelli. Their influence on Pirandello is indisputable. Italian drama and comedy continue to surprise, depress or elate, with works by Betti, Fabbri and DeFilippo. Not available to students who have taken Italian 301EY or Italian 302s—1971–72 Calendar.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* TBA

ITA 371EF **Introduction to Modern Poetry, 2L, 1T** (Not offered in 1972–73)

A study of the post-Romantic era, including Pascoli and D'Annunzio and the first half of the 20th century involving principally the Futurist revolution and Hermeticism. Not available to students who have taken 303EY—1971–72 Calendar.

*Pre-requisite:* ITA 201E A or B

*Instructor:* P. Marchese

ITA 390ES **Verga e la tristezza faticosa del vivere, 2L, 1T** (Not offered in 1972–73)

The novels and short stories of Giovanni Verga, Sicilian and Italian, whose characters endure the hopelessness of life.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* L. T. McCormick

ITA 399ES **Pirandello: Life vs Form, 2L, 1T** (Not offered in 1972–73)

Although Pirandello died in 1936, the dramatization of his conception

of life which aroused controversy when first presented is still disturbing. Much of today's theatre can be traced to Pirandello's influence.

*Pre-requisite:* ITA 201E/P.I.

*Instructor:* P. Marchese

### LITERATURE IN TRANSLATION

LTR 191

**Literature as Strategy for Political and Social Change; The Renaissance, 2L (Not offered in 1972-73)**

Concentrates on the Italian origins of the Renaissance and points out the relationship of its literature to the social and political evolution of that period. Special attention will be paid to Machiavelli, Guicciardini, Castiglione and Ariosto, and representative European authors such as Rabelais, Montaigne, Cervantes and Erasmus. It will try to discover the true Machiavelli, whose name and false reputation have covered his true character and have also made him universally familiar. It will attempt to find answers to such questions as: What was the intellectual's relationship with the State?; What was the status of the woman?; Was there a Renaissance man?

*Instructor:* L. McCormick

LTR 192

**The Rogue in Literature, 2L, 1T**

Studies the picaresque novel, or romance of roguery, and its evolution from classical antiquity to the present day. The "picaro" will be viewed in the light of his age, as a reflection of his environment and the vision of the world of his times. Special emphasis will be given to sixteenth and seventeenth century Spain, the home country of this shady hero. Translations will be read of works by Petronius, Apuleius, Fernando de Rojas, Anonymous (Lazarillo de Tormes), Quevedo, Cervantes, Le Sage, Grimmelshausen and Mann.

*Instructor:* O. Heygi

LTR 193

**The Realistic Novel, 2L, 1T (Not offered in 1972-73)**

An introduction to the great florescence of prose writing in nineteenth-century Europe. The two impulses of realism and romanticism induced a tension in the greatest creative minds of the age. The result was a series of passionate, romantic, or tragic characters—Madame Bovary, Anna Karenina, Julien Sorel—depicted against detailed but panoramic social backgrounds—the Napoleonic Wars, the rise of the bourgeoisie, the first rumblings of the revolution in Russia. Works will be chosen from the writings of Balzac,

Flaubert, Stendhal, Tolstoy, Turgenev, Fontane, Hauptmann, Galdos and Verga.

*Instructor:* P. R. Findlay

**See also**

- GLL 190     **Greek and Roman Religion and Mythology, 2L, 1T**
- GLL 202s   **The Ancient Novel, 1L, 1T**
- GLL 206E   **Socrates, 1L, 1T**
- GRH 101E   **The Classical Ideal and the Classical Experience, 2L, 1T**
- SLA 100E   **Introduction to Slavic Culture and Literature, 1L, 1T**
- SLA 210     **Nineteenth Century Russian Literature, 2L, 1T**  
              (I)
- SLA 310     **Twentieth Century Russian Literature, 1L, 1T**
- SLA 312     **Tolstoy and Dostoevsky, 1L, 1T**
- SPA 191     **Spanish Civilization and Culture, 2L**
- SPA 192     **Latin American Civilization and Culture, 2L**
- SLA 310     **Twentieth Century Russian Literature, 1T, 1L (in English)**
- SLA 312     **Tolstoy and Dostoevsky, 1T, 1L (in English)**

## **MATHEMATICS**

Faculty Adviser: Professor S. M. Trott

There are many different motivations for the study of Mathematics. To the humanist, Mathematics is a part of the mainstream of human culture, and he is likely to regard his subject as an art. To the scientist or social scientist it affords analytical and descriptive devices which greatly illuminate theory. To the engineer and economist it is an important working tool. To the mathematician, it is an end in itself. Mathematics endeavours to provide courses to suit all of these viewpoints.

The professional mathematician is most likely to find employment in universities, in the civil service or in government laboratories, and in financially or technologically oriented business firms. Research positions require post-graduate study. Such fields as teaching, computing, applied statistics, and actuarial science offer opportunities for graduates. A training in Mathematics has traditionally been a strong preparation for careers in law and business; today it is also an excellent foundation for further work in a wide variety of fields in the science and social sciences.

The sequential nature of Mathematics means that pre-requisites are essential in most courses and that, as a rule, it is disastrous to fall behind in a course. In other words, good preparation and steady work are essential to successful completion of a mathematics course, and students without the one and/or unwilling to engage in the other are advised to avoid the subject. Where pre-requisites are stated, they may be waived for students who can demonstrate adequate knowledge.

First year students with adequate preparation who want a substantial mathematics



course either for its own sake or in conjunction with another field of study are advised to take MAT 135E. All serious students should also take Mathematics 140E. Most students find MAT 140E more difficult than MAT 135E. The half courses MAT 110EF/ES and MAT 120EF/ES are intended for students seeking less demanding courses. They afford an entry into Mathematics for the student who omitted or did poorly in Grade 13 Mathematics.

Erindale College offers a full range of courses required for specialization in Mathematics and in Computer Science for the first three years of study. Arrangements can be made for students with B-average or better to take a fourth year of study at the St. George Campus.

*Programme in Mathematics:*

First Year:	required	MAT 135E, MAT 140E
	recommended	MAT 204EF, MAT 209ES
Second Year:	required	MAT 235E, MAT 240E, MAT 204EF, MAT 209ES, APM 251E
	recommended	STA 232
Third Year:	required	MAT 335E, MAT 340EF, MAT 345ES, and APM 351E, or STA 357, or both of STA 332F and STA 342S

*Programme in Computer Science:*

First Year:	required	CSC 148F, CSC 158S, MAT 135
	recommended	MAT 140, MAT 204F, MAT 209S
Second Year:	required	CSC 248F, CSC 258S, MAT 235, APM 251E, STA 232
	recommended	MAT 240, MAT 204F, MAT 209S
Third Year:	required	CSC 368S, CSC 361F, MAT 240E
	recommended	CSC 358S, ELE 460F (These are available only on the St. George Campus)

The course numbers indicate the year in which a course is normally taken, but this indication is not meant to be restrictive. Any mathematics course may be taken whenever a student has the pre-requisites or can obtain waiver of pre-requisites.

APM 241S    **Mathematical Models, 2L, 1T**  
 Construction and analysis of mathematical models in the life, social, and physical sciences.  
*Pre-requisite:* MAT 244F  
*Instructor:* P. H. H. Fantham

APM 251E    **Applied Mathematics I, 2L, 1T**  
 Introduction to dynamical systems: Newtonian physics, Lagrangian dynamics, linear networks, vibrating strings, Linear systems in finite

dimensional vector spaces: similarity, orthogonality, eigenvectors, decomposition of spaces. Introduction to infinite dimensional spaces: orthogonality, eigenvectors, Fourier series. Some numerical methods.

*Pre-requisite:* MAT 135

*Co-requisite:* MAT 235 or P.I.

*Instructor:* V. Jurdjevic

APM 351E **Applied Mathematics II, 2L, 1T**

Partial differential equations of applied mathematics, mathematical models of physical phenomena, basic methodology.

*Pre-requisite:* APM 246ES/APM 251E

*Instructor:* W. D. Lakin

CSC 108Y **Computer Programming, 1L, 1T**

Algorithms and flow charts. An introduction to stored-program computers and Fortran programming. Elementary applications in data processing, scientific calculations, non-numerical problems, and simulations. (May not be combined with CSC 148Y, CSC 238F.)

*Instructor:* TBA

CSC 148F **Introduction to Computing, 2L, 2T**

Algorithms and flow charts. Introduction to stored-program computers, machine and assembly language programming.

Programming in higher level languages. Students will be encouraged to work on problems of their own choosing.

*Pre-requisite:* XIII A or B

*Co-requisite:* MAT 135

*Instructor:* C. R. Crawford

CSC 158S **Computer Applications**

A continuation of CSC 148F. Elementary numerical methods and an introduction to error analysis, statistical calculations and tests of significance, simulations and the validity of computer models, data processing, non-numerical calculations, an introduction to the construction of translators. Theoretical models of a computing machine. (May not be combined with CSC 118S St. George.)

*Pre-requisite:* CSC 148F

*Instructor:* C. R. Crawford

CSC 236S **Numerical Methods, 2L, 1T**

Solution of non-linear equations, approximations, quadrature, solution of systems of linear equations, eigenvalues and eigenvectors,

differential equations. Exercises requiring use of a computer will be assigned.

*Pre-requisites:* CSC 108F, MAT 135E

*Instructor:* C. R. Crawford

**CSC 248F    Programming Languages and Applications, 2L, 1T**

The syntax and semantics of various programming languages, including both algebraic and symbol manipulation languages; data structures; numerical and non-numerical applications.

*Pre-requisites:* CSC 108F, MAT 135E

*Instructor:* TBA

**CSC 258s    Computer Organization and Assembly—Language Programming, 2L, 1T**

Modular programming, decision tables, table-oriented logic, computer structure, machine language, addressing techniques and digital representation of data.

*Pre-requisites:* CSC 108F, MAT 135E

*Instructor:* C. R. Crawford

**CSC 361F    Numerical Analysis, 2L, 1T (Not offered in 1972–73)**

Analysis of methods for finding the roots of polynomials and non-linear equations, solving systems of linear algebraic equations and performing matrix calculations. Approximation theory. Interpolation and quadrature. Numerical solution of ordinary differential equation, including convergence theorems and stability. (May not be combined with APM 236s—1971–72 Calendar.)

*Pre-requisites:* CSC 148F and APM 251E

*Instructor:* TBA

**CSC 368s    Language Processors, 2L, 1T**

Formal description and classification of programming languages. Specification of Syntax. The Parsing problem. Top-down and bottom-up parsing. Precedence methods. Attaching semantics to syntax. Translator writing systems.

*Pre-requisites:* CSC 258F and CSC 248s

*Instructor:* TBA

**MAT 110EF    Introductory Calculus, 2L, 2T**

(Intended for students who did not take or did poorly in Mathematics "A") Differentiation and integration of elementary functions with applications. (May not be combined with: MAT 135 except by students

who are ineligible to enroll in MAT 135 and who take this course to become eligible.)

*Instructor:* TBA

**MAT 110ES Introductory Calculus, 2L, 2T**

(Intended for students who did not take or did poorly in Mathematics "A") Differentiation and integration of elementary functions with applications. (May not be combined with: MAT 135 except by students who are ineligible to enroll in MAT 135 and who take this course to become eligible.)

*Instructor:* TBA

**MAT 120EF Finite Mathematics, 2L, 2T**

Vectors and linear transformations. Matrices and their properties. Notions of probability. Applications to linear programming, game theory, and Markov chains. (May not be combined with: MAT 135 except by students who are ineligible to enroll in MAT 135 and who take this course to become eligible.)

*Instructor:* TBA

**MAT 120ES Finite Mathematics, 2L, 2T**

Vectors and linear transformations. Matrices and their properties. Notions of probability. Applications to linear programming, game theory, and Markov chains. (May not be combined with: MAT 135 except by students who are ineligible to enroll in MAT 135 and who take this course to become eligible.)

*Instructor:* TBA

**MAT 135E Calculus and Linear Algebra I, 2L, 2T**

Integral calculus of real functions. Topology of real vector spaces. Linear transformations. The derivative of a vector function, Jacobian matrix, chain rule. Applications to geometrical problems, to the kinematics of a particle, and to differential geometry of curves. (May not be combined with: MAT 110EF, 110ES, 120EF, or 120ES, but see note in descriptions of these.)

*Pre-requisites:* XIII Maths A (75% or better) & B (Students without XIII Maths B may enroll if they also enroll in MAT 120EF)

*Instructor:* S. M. Trott

**MAT 140E Abstract Mathematics, 2L, 2T**

1. Inequalities and topology of the real numbers. Properties of continuous functions.



2. Introduction to the concepts of abstract algebra including groups and rings.

*Pre-requisites:* XIII Maths A & B (Students without XIII Maths B may enroll if they also enroll in MAT 120EF)

*Instructor:* J. E. LeBel

**MAT 204EF Modern Symbolic Logic, 2L, 1T**

- (1) (Same as PHL 250F) Symbolic logic provides precise and efficient techniques for analyzing informal reasoning. It is therefore useful in fields as diverse as law, philosophy, mathematics, and computer science. Profound theorems of mathematics, having important philosophical implications, have come from the study of symbolic logic.

*Instructor:* Same as PHL 250F

**MAT 209ES Set Theory, 2L, 1T**

- (1) (Same as PHL 353s) Does the barber who shaves just those who don't shave themselves shave himself? Is there a number bigger than infinity? Set theory is simultaneously the source and the solution of philosophical and mathematical paradoxes. In addition, it is the mathematics underlying all of mathematics.

*Pre-requisite:* MAT 204EF (formerly PHL 206F)

*Instructor:* F. D. Tall

**MAT 235E Calculus and Linear Algebra II, 2L, 1T**

A continuation of MAT 135E. Orthogonality. Mean value theorem, Taylor's approximation. Implicit and inverse function theorems. Multilinear algebra, determinants. Integration of vector functions, change of variable formula. Applications to extrema and probability.

*Pre-requisite:* MAT 135E

*Instructor:* J. E. LeBel

**MAT 240E Algebra, 2L, 1T**

A continuation of MAT 140E including rings, integral domains, fields, polynomials, field extensions, and other topics.

*Pre-requisite:* MAT 140E

*Instructor:* V. Jurdjevic

**MAT 244F Differential Equations, 2L, 1T**

Ordinary differential equations of first and second order. Solution by

series and integrals. Systems of first order, linear differential equations. Applications to various problems.

*Pre-requisite:* MAT 135E

*Instructor:* P. H. H. Fantham

**MAT 320EF Topics in Mathematics I, 2L, 1T**

This course is intended to give a broad overview of mathematics.

*Pre-requisite:* P.I. The class will be limited to 20 students with preference being given to applicants intending a career in teaching.

*Instructor:* F. D. Tall

**MAT 325ES Topics in Mathematics II, 2L, 1T**

More of MAT 320EF.

*Pre-requisite:* P.I. The class will be limited to 20 students with preference being given to applicants intending a career in teaching

*Instructor:* D. F. Andrews

**MAT 335E Vector Calculus, 2L, 1T**

A continuation of MAT 235E. Elementary calculus on manifolds, Stokes' theorem. Complex variable theory, residue calculus, boundary value problems.

*Pre-requisite:* MAT 235E

*Instructor:* T. Bloom

**MAT 340EF Advanced Abstract Mathematics I, 2L, 1T**

A high level course in an area of abstract mathematics. e.g. Algebra, Topology, Geometry.

*Pre-requisite:* MAT 240E

*Instructor:* TBA

**MAT 345ES Advanced Abstract Mathematics II, 2L, 1T**

A continuation of MAT 340EF or a high level course in another area of abstract mathematics.

*Pre-requisites:* MAT 240E

*Instructor:* TBA

**MAT 399Y Independent Work in Mathematics**

A prospective student should select his topic and adviser before the end of second year and discuss the topic with his adviser.

*Pre-requisite:* Acceptance by an adviser

**STA 202EF Statistics, 2L, 2T**

(I) The purpose of this course is to acquaint beginning students in the

biological, physical and social sciences with the fundamentals of statistics. The course discusses statistical procedures for describing large quantities of data and for making inferences about populations on the basis of samples.

*Instructor:* D. F. Andrews

- STA 232     **Introduction to Statistics, 2L, 1T**  
 Elements of probability theory, common distributions, point and interval estimation, standard significance tests, introduction to least squares and analysis of variance.  
*Pre-requisites:* MAT 135E, or MAT 110EF/S and MAT 120EF/S  
*Instructor:* TBA
- STA 332S     **Experimental Design, 2L, 1T**  
 The statistical aspects of collecting and analyzing experimental data, analysis of variance, orthogonal designs.  
*Pre-requisite:* STA 232  
*Instructor:* TBA
- STA 342F     **Regression Analysis, 2L, 1T**  
 Regression theory with applications to the analysis of non-orthogonal data.  
*Pre-requisite:* STA 232  
*Instructor:* TBA
- STA 357     **Probability, 2L, 1T**  
 A thorough treatment of joint probability distributions, sequences of random variables, generating functions, law of large numbers and central limit theorem in Bernoulli case, introduction to Markov chains.  
*Pre-requisite:* STA 232  
*Instructor:* TBA

## MUSIC

Faculty Adviser: G. Jones

Music is presented as one of the liberal arts, drawing upon concepts of musical analysis and theory to allow exploration in depth. Because this approach to musical style is historical and humanistic, it differs in some respects from courses designed for composers and performers. Professional performing skills are not required for this kind of study. It is expected that additional courses will be added in succeeding years.

**MUS 100      The Study of Music Literature, 2L, 1T**

An introduction to world music dealing with the repertory of western music from the Middle Ages to the 20th century, non-western music of high civilizations, and popular music. Discussion of form, style and the interrelationship of music and culture. Required listening and reading lists are distributed at the beginning of the year.

*Instructor: G. Jones*

**PHILOSOPHY**

Faculty Adviser: Professor W. J. Huggett

Philosophical problems are distinguished by their continuing fascination for the human mind and by their perennial elusiveness. But when even moderate progress is made, the impact upon the world of learning is often enormous. Revolutions in thought that shake the foundations of the existing sciences have occurred and exciting new disciplines have emerged. In addition, perplexing difficulties have been uncovered in the underpinnings of the natural and social sciences as well as in the presuppositions of morality, freedom, responsibility, religion, and conventionally accepted values.

The role of the philosopher is that of Socrates, the self-styled “gadfly”, who refuses to *play* your game but insists on examining it critically instead. He asks *why* you made that move, recommends alternative strategies, and may even question the value of the game itself. Socrates was the first philosopher-kibitzer and he was put to death.

We invite you to kibitz with us and acquire the tools and techniques necessary for clarifying and evaluating the life and thought of the present and of past ages. Apart from the physical hazard mentioned above, a critical scrutiny of your own most cherished convictions and deeply-rooted beliefs may well blow your mind.

Students interested in specializing in Philosophy should consult Professor Huggett.

*Although all courses in Philosophy are listed as half courses (with the exception of PHL 100), many of them are planned as the Fall or Spring portion of a single year-long course and are normally taught by the same instructor in both terms. Since related first and second term courses are not always listed consecutively they are indicated by the words “IN SEQUENCE WITH” followed by the number of the related course.*

**PHL 100      Introduction to Philosophy, 2L, 1T**

An examination of a wide range of representative and important philosophical questions, such as: are moral standards relative to one's society? Do human beings have freedom of the will? Are there rational grounds for belief in the existence of God? Is there such a thing as altruistic motivation? What is the relation between a person's mind and his body? Topics in semantics, logic and scientific method are also



discussed with a view to avoiding certain common errors in reasoning.

*Instructor:* Staff

No course in Philosophy at the 200 level has any pre-requisites.

**PHL 200S Reason and Morality, 2L**

Can we function as human beings in society without some form of morality? We do in fact level moral accusations, express moral indignation, pass moral judgments, allot praise and blame, and justify our own actions, but how can anyone know what is morally right? And why should anyone do what is right when it is not to his advantage? This course examines the relation between reason and morality in interpersonal relations and considers arguments for hedonism, utilitarianism, emotivism and egoism. (In sequence with PHL 205F.)

*Instructor:* TBA

**PHL 202F Aesthetics, 2L**

What is a hoax? How does one distinguish between a *genuine* work and a sham or a hoax or a fraud? In dealing with these questions light is shed on traditional puzzles in a wide range of art forms and media. Students who wish to concentrate upon one particular art form such as literature or music are encouraged to do so. (See also PHL 291s.)

*Instructor:* A. Rosenthal

**PHL 204S Literature and Philosophy, 2L**

Man's nature, his relation to his fellows and his place in the universe are all themes that have received significant literary and philosophical attention. Several major works of literature ranging all the way from Greek tragedy to science fiction are examined with a view to clarifying and evaluating the philosophical doctrines they reveal and reflect. Among the authors studied are Sophocles, Camus, Brecht, Golding, Dostoevsky, Tolstoy and Kafka.

*Instructor:* W. R. C. Harvey

**PHL 205F Contemporary Social Issues, 2L**

Sexual morality and marriage; abortion, drugs, and the law; women's liberation, capital punishment and pollution are among the issues raised. The structure and validity of the arguments employed are investigated and the tenability of various moral and other principles which they contain is examined. (In sequence with PHL 200s.)

*Instructor:* TBA

**PHL 210F The State and the Citizen, 2L**

The role of civil disobedience in a democratic society, the distinction

between violent and non-violent modes of social action, and the validity of present-day political radicalism. The views of contemporary social critics and philosophers on these and related themes are analyzed and assessed in order to throw light on such basic notions of political philosophy as the nature of the state, its justification and proper limits, and the obligations of citizens. (In sequence with PHL 312s.)

*Instructor:* TBA

**PHL 213s    The University and Society, 2L**

A philosophical examination of the goals and function of a university in society. What is the social function and justification of granting degrees, conducting examinations or making academic evaluations? What does society demand of a university and what should it demand? Can and should a university remain politically isolated? These questions are dealt with in the light of critical examination of current work in the philosophy of education, including writings by Paul Goodman and Noam Chomsky.

*Instructor:* TBA

**PHL 216F    Deviance and Abnormality, 2L**

The notions of "deviance" and "abnormality" in the social sciences raise questions in theory of knowledge and ethics. According to what criteria do we decide that an action is "unnatural", a person is "insane" or "abnormal", a life-style is "deviant" or a political view is "irrational"? Is the application of these labels always arbitrary, subjective and culture-bound, or can it have some basis in human nature? (In sequence with PHL 314s.)

*Instructor:* A. Rosenthal

**PHL 220s    Belief, Knowledge and Truth, 2L**

Gullibility and credulity, fads and fallacies, hoaxes in science, religion and the arts. Against this background we deal with basic topics in the theory of knowledge, such as: certainty and skepticism, the subjectivity of perception, reason and rationality, theories of truth, and the criteria and justification of claims to know.

*Instructor:* A. Rosenthal

**PHL 230F    Existentialism and Phenomenology, 2L**

Sartre and Camus have helped make existentialism the most widely discussed philosophy of the present day. Existentialism derives in part from the work of phenomenologists who first stressed the philosophical importance of detailed and accurate descriptions of mental states and

processes. The techniques of phenomenological analysis have been used by existentialists to provide a general description of the human condition—that relation between essence and existence which is peculiar to man. Both existentialism and phenomenology are analyzed and evaluated in this course.

*Instructor:* TBA

**PHL 232S    The Philosophy of Bertrand Russell, 2L**

“Three passions, simple but overwhelmingly strong, have governed my life: the longing for love, the search for knowledge and unbearable pity for the suffering of mankind.” (Russell.) Throughout his long career, Russell has been associated with issues such as the emancipation of women, civil liberties and opposition to wars. He has invariably supported the individual as opposed to civil or religious authority and the spirit of free enquiry as opposed to dogma. We concentrate here on the social and political aspects of Russell’s thought.

*Instructor:* A. I. F. Urquhart

**PHL 240F    The Birth of Philosophy I: To Plato, 2L**

- (I) Is morality merely an instrument in the hands of those who control the state? In answering this question Plato sketches the first account of a utopian society and deals with every important philosophical topic: the subjectivity of perception, the nature of knowledge, the relation between mind and body, the conventionalism or relativism of morality. Plato is the first major philosopher and his influence has been enormous. (In sequence with PHL 241s.)

*Instructor:* W. J. Huggett

**PHL 241S    The Birth of Philosophy II: Aristotle and After, 2L**

- (I) Aristotle, like his teacher Plato, deals with every important philosophical issue including the nature of the universe, God, man in society, and metaphysics and, like Plato, he leaves the stamp of his own genius upon each. His views largely determined thinking on these matters until the time of the Renaissance and they continue to exert a powerful though little-noticed influence upon the thought of our own day. We therefore stress the contemporary relevance of the doctrines examined. (In sequence with PHL 240F.)

*Instructor:* W. J. Huggett

**PHL 243F    The Age of Reason: 17th Century Thought, 2L**

This great formative era of modern philosophy is marked by the decline

of mediaeval conceptions and the rise of modern science. Under the influence of the newly-emerging world-view, philosophers in this "age of reason" developed original analyses of knowledge and certainty, appearance and reality, freedom and necessity, mind and matter, deduction and experiment. Hobbes, Descartes, Spinoza and Locke are examined in some detail and others to a lesser extent. (In sequence with PHL 244s.)

*Instructor:* TBA

**PHL 244s      The Age of Enlightenment: 18th Century Thought, 2L**

The philosophers of this period developed further the insights of their predecessors. Berkeley is noted for his subtle and ingenious arguments whereby he challenges the reality of an external world of material objects. Hume is the major British philosopher and is renowned for his skeptical attacks upon established beliefs and doctrines. Kant, the major German philosopher, has been a most powerful influence dominating the thought of the nineteenth century. Other philosophers of the time are examined to a lesser extent. (In sequence with PHL 243F.)

*Instructor:* TBA

**PHL 250F      Modern Symbolic Logic, 2L**

(I) Symbolic logic provides precise and efficient techniques for analyzing informal reasoning. It is therefore useful in fields as diverse as law, philosophy, mathematics, and computer science. The most profound theorems of mathematics, having important philosophical implications, have come from the study of symbolic logic. (Same as MAT 204EF.) (In sequence with PHL 353s.)

*Instructor:* A. I. F. Urquhart

**PHL 261s      Philosophy of Religion, 2L**

What is the nature of religious belief and is it justifiable? In attempting to answer this and related questions we study primitive religion, three Eastern religions (Confucianism, Taoism, and Buddhism), the ontological argument for the existence of God, the Freudian critique of religion, and the relationship between science and religion. (In sequence with PHL 270F.)

*Instructor:* J. V. Canfield

**PHL 270F      Miracles, Mysticism, and the Occult, 2L**

A study of paranormal phenomena, the significance of the occult sciences, the possibility of miracles, disembodied existence, drug-induced states of mind and genuine mystical experiences. A



selection will be made from an extensive philosophical literature dealing with these topics. (In sequence with PHL 261F.)

*Instructor:* J. V. Canfield

**PHL 280F    Persons, Minds and Bodies, 2L**

What is a person? Is a person a body animated by a mysterious ghostly entity called a "mind" or a 'soul'? Or should we say that when we talk of minds we are *really* talking about brains or about behaviour? We examine criteria of identity of persons over time and the justification of claims that the bodies we see are bodies of persons having thoughts and experiences like our own.

*Instructor:* TBA

**PHL 281S    Philosophical Psychology, 2L**

Are some problems in psychology fundamentally conceptual in nature and not amenable to solution by the experimental method? Modern philosophical techniques of philosophical analysis are introduced and used to throw light on this question and others that arise where philosophy and psychology overlap.

*Instructor:* J. V. Canfield

**PHL 282S    Language and Communication, 2L**

Human language as a system of communication has had a profound impact on the way in which we organize and manipulate our environment. This influence was accelerated by such inventions as writing and the printing press. Have the electronic mass media of the present day produced further and revolutionary changes in our world-view and modes of awareness? We deal with these questions by examining the internal structure of language and the relation of language to the world and the human mind.

*Instructor:* TBA

**PHL 283S    The Analysis of Propaganda, 2L**

A philosophical examination of various techniques of persuasion including psychological warfare, indoctrination, brainwashing and advertising. Topics include the emotive use of language, persuasive definitions, informal fallacies, the ethical presuppositions of propaganda, and the relevance of contemporary analyses of morality to propaganda wars. The material examined includes black power literature, student protest literature, and Quebec separatist documents, as well as classical works such as the Communist *Manifesto* and Mill's *Utilitarianism*.

*Instructor:* A. Rosenthal

**PHL 291S Film Aesthetics, 2L**

A selection of films from a variety of film types is shown and against this background there is a discussion of various questions concerning the aesthetics of film, such as: principles of film criticism; film space; form and content; the function of editing; acting; potentialities and limitations of the medium; "reality" in cinéma vérité. (See also PHL 202F.)

*Instructor:* J. V. Canfield

The general pre-requisite for 300 level courses is three half courses in Philosophy (PHL 100 counts as two half courses). However, where a particular course is specified by number as a pre-requisite, only that course is required.

**PHL 312S Philosophy of Law, 2L**

Law, paradoxically, provides both shackles and freedom. Is the law's double aspect due to the unique role it plays in organized societies and states? Can there be law without coercion? Should the law legislate morals? What is the rationale of legal punishment? Are judicial decisions arbitrary? Classical and contemporary theories of jurisprudence are assessed according to the answers they provide to these and related questions. (In sequence with PHL 210F.)

*Pre-requisites:* Two half courses in Philosophy or the Social Sciences: PHL 210F is recommended.

*Instructor:* M. Schiller

**PHL 314S Philosophy of Social Science, 2L**

Topics and issues include: subjectivism; objectivity and values, individualism; determinism and social change; the nature and use of models and theories; explanation in approaches like Functionalism and Behaviourism. (In sequence with PHL 216F.)

*Pre-requisites:* Two half courses in the Social Sciences/P.I.

*Instructor:* TBA

**PHL 315S Philosophy of History, 2L**

The concepts, presuppositions, methods and types of arguments used by historians are analyzed and assessed. Among the questions examined are these: What is the role of general laws in historical explanation? Can history be objective? Is history determined? Do historical explanations differ from scientific explanations? Is history without value-judgments possible?

*Pre-requisites:* Two half courses in History or Philosophy

*Instructor:* TBA

- PHL 347F Nineteenth Century Philosophy, 2L** (Not offered in 1972–73)  
 Traditional philosophical paths of reasoning and subject matter are abandoned in this most explosive and revolutionary period of thought. Philosophers like Hegel, Marx, Kierkegaard, Comte and Nietzsche bring in new concepts such as the effect of history upon philosophy, theories of dialectical materialism, existentialism, sociology, evolution and the influence of culture. Here begin the trends which lead up to many of the dilemmas of our own day.  
 (In sequence with PHL 348s.)  
*Pre-requisites:* Three half courses in philosophy: PHL 244s is recommended  
*Instructor:* TBA
- PHL 348s Twentieth Century Philosophy, 2L** (Not offered in 1972–73)  
 A survey of some main trends in contemporary philosophy including influential contributions to the fields of logical analysis, linguistics and science. Among the more important figures studied are Russell, Moore and Wittgenstein. (In sequence with PHL 347F.)  
*Pre-requisites:* Three half courses in philosophy  
*Instructor:* TBA
- PHL 353s Set Theory, 2L, 1T**  
 (1) Does the barber who shaves just those who don't shave themselves shave himself? Is there a number bigger than infinity? Set theory is not only the source of philosophical and mathematical paradoxes but also provides the means for their solution. In addition, it is generally accepted as the mathematics underlying all of mathematics. (Same as MÂT 209ES.) (In sequence with PHL 250F.)  
*Pre-requisite:* PHL 250F (Same as MAT 204EF)  
*Instructor:* TBA
- PHL 396F Tutorial in Epistemology, 2T**  
 A concentrated examination of central topics in epistemology, e.g. necessary truth, perception, knowledge and belief. Not more than three students are assigned to each tutor.  
*Pre-requisites:* Three half courses in philosophy: PHL 220s is recommended  
*Instructor:* Staff
- PHL 396S Tutorial in Epistemology, 2T**  
 A concentrated examination of central topics in epistemology, e.g.

necessary truth, perception, knowledge and belief. Not more than three students are assigned to each tutor.

*Pre-requisites:* Three half courses in philosophy: PHL 220s is recommended

*Instructor:* Staff

## PHYSICS

Faculty Adviser: Professor H. W. Taylor

Physics was born of a desire to understand nature in a quantitative way. Guided by experiment and intuition, physicists arrive at mathematical relations among various concepts and these are then tested experimentally and extended by further research. The physics courses offered at Erindale are designed to help students both to understand and to use the concepts and relationships which have been developed, and to appreciate the need for continual questioning of scientific theories. The liberal arts student should gain insight into the nature of scientific investigation, while the student whose interest is in sciences other than physics should acquire a background knowledge leading to a deeper understanding of his own discipline. Students intending to specialize in physics will meet a broad programme of courses which will prepare them for advanced study.

The present programme in Physics at Erindale College employs the most up-to-date demonstration apparatus and undergraduate facilities. It has been designed to meet the diverse needs of the physics students of the College.

Students wishing to specialize in physics should consult a physics professor. Recommended first-year programmes:

i) for physics and science specialists:

PHY 120E, MAT 135E

ii) for generalists, pre-meds, etc.:

PHY 110, MAT 110EF and 120EF or MAT 135E

Recommended further study for students of science not wishing to specialize in Physics:

PHY 220E, 301E.

Recommended further study for Physics specialists:

2nd year: PHY 220E, 221EF, 222ES, 226E, APM 251E, MAT 235E

3rd year: PHY 301E, 302E, 311E, 313E, APM 351E

4th year: PHY 400E, 401EF, 403EF, 405ES, 406ES

PHY 110     **The World of Physics, 2L, 1T, 2P**

A survey course in Physics designed to meet the needs of students not intending to specialize in Physics. Topics include special relativity,



gravitational, electric and magnetic forces, linear and rotational kinematics and dynamics. Recent developments in Physics are discussed briefly.

*Pre-requisite:* Gr. XIII Physics and Math. or P.I.

*Co-requisite:* MAT 135E or MAT 110EF and 120ES

*Instructor:* P. P. M. Meincke

**PHY 120E Physical Mechanics, 2L, 1T, 2P**

A course in theoretical mechanics and properties of matter for students specializing in science. (May not be combined with PHY 110.)

*Pre-requisite:* Gr. XIII Physics and Math. A

*Co-requisite:* MAT 135E

*Instructor:* D. J. Dunlop

**PHY 220E Electromagnetism and Modern Physics, 3L, 1T, 1P**

A basic course dealing with electric and magnetic fields in matter and empty space. Some basic concepts of modern physics are discussed in the last section of the course.

*Pre-requisites:* PHY 110/120E, MAT 135E/110EF, 120ES or P.I.

*Instructor:* G. I. A. Stegeman

**PHY 221EF Thermal Physics, 2L, 1T, 1P**

An introduction to thermodynamics for students specializing in science.

*Pre-requisite:* PHY 120E/P.I.

*Co-requisite:* APM 251/MAT 235, 244F

*Instructor:* D. J. Dunlop

**PHY 222ES Wave Motion and Physical Optics, 2L, 1T, 1P**

An introduction to wave theory, interference and diffraction with applications in physical optics.

*Pre-requisite:* PHY 120E/P.I.

*Co-requisite:* PHY 220E

*Instructor:* TBA

**PHY 226E Electronics, 2L, 1T, 2P**

An introduction to modern electronics for students of physical science, biology, etc. Topics include circuit analysis; diodes, tubes and transistors; amplifiers and oscillators; pulse and logic circuits; modern measurement techniques in the physical and life sciences.

*Pre-requisite:* PHY 110/120E; MAT 110EF/135E/P.I.

*Instructor:* R. F. Code

- PHY 301E **Quantum Physics, 2L, 1T**  
An introduction to modern physics which includes a discussion of wave mechanics with applications to atomic physics.  
*Pre-requisites:* PHY 220E, APM 246ES and MAT 244F/APM 251E  
*Instructor:* S. H. Vosko
- PHY 302E **Electromagnetic Theory, 2L, 1T**  
A detailed description of Maxwell's equations and their application to selected electromagnetic phenomena.  
*Pre-requisites:* PHY 220E, MAT 244F, APM 246ES/APM 251E  
*Co-requisite:* APM 351E  
*Instructor:* S. S. M. Wong
- PHY 311E **Topics in Classical Theoretical Physics, 2L**  
A discussion of selected topics from advanced dynamics and the partial differential equations of mathematical physics.  
*Pre-requisites:* PHY 220E, MAT 244F, APM 246ES/APM 251E  
*Co-requisite:* APM 351E  
*Instructor:* H. W. Taylor
- PHY 313E **Advanced Physics Laboratory, 3P**  
A set of experiments employing advanced techniques for selected areas of physics.  
*Pre-requisite:* PHY 220E  
*Instructor:* Staff
- PHY 400E **Quantum Mechanics, 2L**  
A basic course in non-relativistic quantum mechanics with applications to atomic physics, solid-state physics, etc.  
*Pre-requisite:* PHY 301E  
*Instructor:* TBA
- PHY 401EF **Statistical Mechanics, 2L**  
The general principles of statistical methods in physics will be discussed; Maxwell-Boltzmann, Bose-Einstein, and Fermi-Dirac distributions with applications.  
*Pre-requisite:* PHY 221EF and 301E  
*Instructor:* TBA
- PHY 403EF **Nuclear Physics, 2L**  
A discussion of nuclear stability, radioactivity, nuclear radiations, nuclear reactions and fission.

*Pre-requisite:* PHY 301E (P.I. for students taking BIO 423)

*Instructor:* H. W. Taylor

PHY 405ES **Solid State Physics, 2L**

Description of crystal structures; diffraction of X-rays by crystals; lattice vibrations; elementary theory of electrons in crystals.

*Pre-requisite:* PHY 301E

*Instructor:* TBA

PHY 406ES **Quantum Optics, 2L**

A discussion of the interaction of radiation with matter including lasers, non-linear processes and scattering theory.

*Pre-requisite:* PHY 301E

*Instructor:* TBA

### POLITICAL SCIENCE

Faculty Adviser: Professor B. Kovrig

Political science is the study of politics and government. In general, politics are the ways in which the decisions are made about who is to rule in a society and what laws and policies are to prevail within its physical boundaries, while government is the process by which general rules are carried out. Part of political science is given over to describing specific processes or events—for example, a particular Canadian party leadership convention or such Canadian conventions generally—in somewhat the same way a biologist would describe something in physical nature. But political science will go from these particularities to generalizations. One may describe political violence in contemporary Canada within the framework of an analysis of violence in countries similar to ours or, even more generally, in all societies both past and present. The study of politics at Erindale deals not only with how politics and government *do* proceed but how they *should* be carried on in the light of a long tradition of political philosophy. Thus students will be introduced in some courses to such questions as—what tests do we apply to determine whether one kind of government is better than another? who should rule? under what conditions, if any, have people a moral obligation to disobey government?

In spite of its fascination for many people, political science is a demanding study. This is so partly because its subject-matter is very complex. But more than that, we all bring to political science opinions about what is and what ought to be which we have accepted uncritically. Here are some questions to which most people would give ready answers:

- (1) Are totalitarian nations more likely to have aggressive foreign policies than have democratic countries?
- (2) is it desirable that governments should not try to “legislate morality”?

- (3) are we more likely to control environmental pollution if we vest powers over such matters in larger rather than smaller units of government?

Although most of us would be willing to make snap judgments about such questions as these, each is very complex and our opinions are probably no better founded than are those of non-experts about, say, the law of relativity or the causes of the common cold. The study of political science will not eliminate political prejudices and is not directed toward eliminating political convictions but at a minimum it gives a person more ability than he had otherwise to give an account of the basis of his beliefs both about what the political world is and what it can and should be.

The *Specialist programme* requires standing in at least 10 courses in Political Science, of which at least 8 must be 200 or higher series courses, taken as part of a four year programme. Students taking a specialist programme must enrol with the Department of Political Economy. (*Note: COM 323, Introduction to Public Administration, can be considered as a POL course.*)

**SUGGESTED FIRST YEAR PREPARATION:** One or Two of: POL 100, POL 101, POL 104. POL 100 is a pre-requisite for advanced courses in Canadian Government and Public Administration. Students will find ECO 100 particularly useful.

## SECOND, THIRD, AND FOURTH YEARS

Students must include the following in their programmes:

At least two full year courses in Political Theory from POL 200, POL 321s, POL 329s, POL 400F (or from additional offerings on the St. George Campus).

At least one full course from each of FOUR of the following FIVE fields

Comparative Politics (Developed Countries)

Comparative Politics (Developing Countries)

International Relations

Canadian Government and Public Administration

Political Behaviour

### **POL 100 Introduction to Canadian Politics, 2L, 1T**

An introduction to the political process in Canada, including political culture and behaviour, political parties, the structure and function of political institutions, federalism, French Canada.

*Instructor: D. V. Smiley*

### **POL 101 Introduction to Political Science, 2L**

A reading of some important texts in political philosophy as a series of confrontations between five sets of political thinkers who were contemporaries of each other—Plato and Aristotle, Hobbes and



Locke, Burke and Paine, Calhoun and Mill, Niebuhr and Marcuse. Many of the most crucial questions of politics will be raised in terms of the claims of government, the limits of legitimate political authority, the nature of human rights and what kinds of knowledge we can have about politics.

*Instructor:* A. A. Kontos

- POL 104    **Foreign Political Institutions, 2L, 1T**  
 A contemporary course stressing foreign political movements and forms of government relevant to twentieth century politics: Presidential government (U.S.); Parliamentary systems (France and Germany); Soviet Communism; and the fascism of Mussolini's Italy and Nazi Germany.

*Instructor:* J. E. Smith

- POL 200    **History of Political Thought, 2L**  
 This course examines fundamental concepts and themes of the main political philosophers of the Western world from classical Greece to the modern times.

*Instructor:* R. A. Fenn

- POL 203    **Politics and Government of the United States, 2L**  
 This course examines the evolution of the American Constitution as well as the actual operation of government through the workings of politics and administration; it covers executive-legislative relations, parties, pressure groups, and the bureaucracy.

*Instructor:* TBA

- POL 204    **Soviet Government and Politics, 2L, 2T** (First part of course lectures, second part seminars)  
 A survey of Soviet political institutions and processes, concentrating on the evolution of the Soviet political system and applying social science techniques to an analysis of current Soviet politics.

*Instructor:* R. B. Day

- POL 208    **International Relations, 2L**  
 A study of international systems with emphasis on the sources, patterns, and resolution of interstate conflict.

*Instructor:* B. Kovrig

- POL 209    **Science, Technology and Public Policy, 2L**  
 (I) This course examines the social impact of advances in science and

technology and governmental efforts to frame and implement "science policy". Among topics examined are: the social responsibilities of scientists and engineers, the prospects for democracy in view of the need for technology expertise, and controversial policy issues involving scientific considerations.

*Instructor:* S. A. Lakoff

**POL 302S    Politics and Government of Western Europe, 2L (Not offered 1972-73)**

*Instructor:* TBA

**POL 303F    Politics and Government of the United Kingdom, 2L**

A survey with particular emphasis on contemporary British problems, relating these to some general themes concerning the nature, strengths and weaknesses of liberal democracy.

*Instructor:* R. B. Day

**POL 304    Politics of the Third World, 2L (Not offered 1972-73)**

**POL 321S    Empirical Political Theory and Its Critics, 2L**

A critical examination of attempts since 1945 to evolve a science of politics by the use of methods analogous to those of the natural sciences.

*Pre-requisite:* P.I.

*Instructor:* D. V. Smiley

**POL 323    Topics in Canadian Politics, 2L**

A workshop or seminar meeting weekly in two-hour sessions.

Students will be responsible for completing one major research or reading project or alternatively two term projects in areas of their own choosing in Canadian politics. Sessions will be devoted to reviewing and analyzing material related to course topics and to reports on work in progress or completed.

*Pre-requisite:* POL 100/P.I.

*Instructor:* TBA

**POL 325S    Topics in U.S. Government and Politics (Not offered 1972-73)**

*Instructor:* TBA

**POL 327    Comparative Foreign Policy, 2L**

An examination on a comparative basis of the foreign policies of the

United States, the Soviet Union, Great Britain, France, Germany, and India.

*Instructor:* R. Gregor

- POL 328 International Organization, 2L** (Not offered 1972–73)  
International organization and international law (the UN and League systems, etc.) as instruments for conflict resolution in the international state system.  
*Instructor:* J. Barros
- POL 329S Marxism-Leninism, 2L**  
A survey of Marxist political thought dealing with the works of Marx; the German Social Democrats; Lenin, Trotsky and the Russian revolution; Maoism, and the problems of modern Communism.  
*Pre-requisite:* P.I.  
*Instructor:* R. B. Day
- POL 340 Undergraduate Thesis**  
An independent research course to be undertaken by students specializing in Political Science.  
*Pre-requisite:* P.I.  
*Instructors:* Staff
- POL 400F Twentieth Century Political Thought, 2L**  
This course explores some contemporary perspectives in the study of politics with particular emphasis on existentialism.  
*Pre-requisite:* P.I.  
*Instructor:* A. Kontos
- POL 411F Canadian Federalism, 2L**  
A study of contemporary Canadian federalism with emphasis on federal-provincial financial and administrative relations, the constitutional division of legislative powers, federal aspects of partisan-political relations and cultural duality.  
*Pre-requisite:* POL 100/P.I.  
*Instructor:* D. V. Smiley
- POL 413S Provincial and Local Government, 2L** (Not offered 1972–73)  
*Pre-requisite:* POL 100/P.I.  
*Instructor:* TBA

- POL 414S    Politics and Government of Communist East Europe, 2T** (Not offered 1972-73)  
 An area study course with particular emphasis on problems of regional integration and the influence of ideology and the Soviet Union.  
*Pre-requisite:* P.I.  
*Instructor:* B. Kovrig
- POL 415    Seminar in International Politics, 2L**  
 A seminar dealing with certain selected topics in International Relations largely based on the students' own presentation.  
*Pre-requisite:* POL 208 or POL 327 or POL 328  
*Instructors:* B. Kovrig and J. Barros
- POL 423F    American Political Thought** (Not offered 1972-73)  
*Instructor:* TBA
- POL 430    Workshop in Political Science, 2T**  
*Pre-requisite:* P.I.  
*Instructors:* TBA

## PSYCHOLOGY

Faculty Advisers: T. M. Alloway and I. M. Spiegel

Psychology is the science which examines the structure and organisation of behaviour in animals and man. It is concerned with the means by which behaviour is acquired and explores the mechanisms of adaptation to the social and physical environment. Emphasis is directed toward cognitive, social, physiological, genetic, and other factors which determine or affect behaviour. Among the topics covered by psychology courses are developmental changes in behaviour, learning, the structure and organisation of the senses, modes of perceiving and responding, the environmental and genetic events which shape behaviour, the origins and implications of drives, motives, conflicts, and emotion, and the wide variety of individual and species differences which are produced by differences in genetic endowment, physiology, and past experience.

Because of the demands of science for rigour and objectivity, stress is given to the techniques by which behaviour is studied. Because psychology is the science of the behaviour of all organisms, the discussion of animal behaviour constitutes an important part of many psychology courses. An intensive examination of experimental findings is paramount in all psychology courses.

Students who are interested in psychology as a career must be prepared for three to five years of graduate study. Persons who hold a Ph.D. in psychology find employment in universities, research institutes, mental hospitals and clinics,



government agencies, and large corporations. A few work as self-employed consultants or therapists. The B.Sc. with a concentration in psychology is not itself a professional qualification; and persons holding only that degree are *not* entitled to call themselves psychologists. People holding bachelor's degrees in psychology typically find employment in a wide variety of business, technical, educational, or social-service areas. However, further formal or on-the-job training is usually required. Nevertheless, undergraduate courses in psychology may be valuable to students planning various professional careers (e.g. in medicine, law, nursing, education, etc.).

There is no prescribed specialist programme in psychology. However, a student aiming for a career in psychology, and who thus plans to make application for graduate study at the University of Toronto or another university, should take special care in the selection of his courses. Graduate schools typically require inclusion of statistics and laboratory courses in the undergraduate programme as pre-requisites for admission to graduate studies. Maintenance of at *least* a high "B" overall average in undergraduate work, high scores on scholastic aptitude tests, and good recommendations from undergraduate professors are also typically required for admission to graduate study. Students planning a career in psychology are strongly urged to seek the advice of psychology professors about the details of their undergraduate programmes.

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| PSY 100   | <p><b>Introductory Psychology, 2L</b><br/>         Psychology is the science of behaviour; and this course seeks to acquaint the student with the scientific method as it is applied in attempting to understand both human and animal behaviour. <i>This course is a strongly recommended pre-requisite for all other psychology courses.</i><br/> <i>Instructor: Staff</i></p> |
| PSY 200F  | <p><b>Statistics and Research Design I, 3L</b><br/>         Basic descriptive and inferential statistics.<br/> <i>Instructor: TBA</i></p>  |
| PSY 201s  | <p><b>Statistics and Research Design II, 3L</b><br/>         Concerned with the design of experiments and the more advanced methods of statistical analysis, including complex analysis of variance.<br/> <i>Pre-requisite: PSY 200F or equivalent</i><br/> <i>Instructor: TBA</i></p>   |
| PSY 203EF | <p><b>Introduction to Social Psychology, 3L</b><br/>         A survey of contemporary areas of research in social psychology. Areas to be considered include social perception, attitudes,</p>   |

interpersonal relations, group processes, and ethnic attitudes.

*Pre-requisite:* PSY 100

*Instructors:* P. Pliner, R. Rosenbaum

**PSY 204ES Personality, 3L**

Emphasis on empirical research in such areas as authoritarianism, need for achievement, manifest anxiety, self-concept.

*Pre-requisite:* PSY 100

*Instructors:* P. Pliner, R. Rosenbaum

**PSY 208EF Sensory and Perceptual Process, 3L**

Examination of theoretical and experimental efforts aimed at understanding sensory and perceptual function. Emphasis will be placed on vision research at both the physiological and behavioural levels.

*Pre-requisite:* PSY 100

*Instructor:* I. M. Spiegel

**PSY 209ES Physiological Psychology, 3L**

An introduction to the study of the neural and endocrinological basis of behaviour.

*Pre-requisite:* PSY 100

*Instructor:* M. Moscovitch

**PSY 213EF Comparative Psychology, 3L**

The innate and learned social responses of a variety of animals will be studied with emphasis on both the similarities and differences in species-specific modes of responding.

*Pre-requisite:* PSY 100

*Instructor:* L. Krames

**PSY 216ES Experimental Design and Theory, 3L**

Problems involved in experimental design and the interpretation of experimental findings; the logical structure of psychological theories. Practice in the critical evaluation of experimental designs and the correction of experimental errors.

*Pre-requisite:* PSY 100

*Instructor:* T. M. Alloway

**PSY 218EF Classical and Instrumental Conditioning, 3L**

Phenomena of classical and instrumental conditioning in mammals will be discussed from both an empirical and a theoretical point of

view. Seeks to acquaint the student with most of the basic findings in this area.

*Pre-requisite:* PSY 100

*Instructor:* T. M. Alloway

- PSY 300EF **Population Regulation Mechanisms, 2L** (Not offered in 1972–73)  
Seminars covering the behavioural and genetic aspects of population regulation. Students present papers and lead discussions on selected topics. Emphasis will be on mammals and insects. (May not be combined with JPZ 200E 1971–72 Calendar.)

*Pre-requisite:* P.I.

*Instructor:* L. Krames

- PSY 310EF **Individual Project**  
Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.

*Pre-requisites:* PSY 200F, 201s, a laboratory course and P.I.

*Instructor:* Staff

- PSY 311ES **Individual Project**  
Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.

*Pre-requisites:* PSY 200F, 201s, a laboratory course and P.I.

*Instructor:* Staff

- PSY 326ES **Abnormal Psychology, 3L**  
A survey of theories and research on abnormal behaviour and psychological treatment with special emphasis on social learning theory and behaviour modification techniques.

*Pre-requisite:* PSY 204ES/PSY 218EF and P.I.

*Instructor:* K. R. Blankstein

- PSY 350EF **Human Memory and Learning, 3L**  
Facts, theories, and methods in the study of human learning. Major emphasis will be on recent trends in the study of verbal learning, memory and verbal behaviour.

*Pre-requisite:* PSY 100 (PSY 216ES recommended)

*Instructor:* F. I. M. Craik

- PSY 351ES **Laboratory in Human Memory and Learning, 3P**  
Experiments will be carried out to illustrate recent theoretical and experimental issues. Students use themselves (and other students) as

subjects and are encouraged to design, carry out and write up experiments in this area.

*Pre-requisite:* PSY 350EF/PSY 214EF 1971–72 Calendar (Also recommended PSY 200F, PSY 201S and PSY 216ES)

*Instructor:* F. I. M. Craik

**PSY 353ES Laboratory in Sensory and Perceptual Processes, 1L, 3P**

The fundamentals of sensory and perceptual processes, chiefly visual. Students conduct weekly laboratory experiments, using each other as subjects. (May not be combined with PSY 208S.)

*Pre-requisite:* PSY 208EF

*Co-requisites:* PSY 200F and PSY 201S recommended

*Instructor:* TBA

**PSY 354EF Laboratory in Physiological Psychology, 1L, 2P (Not offered in 1972–73)**

A laboratory investigation of the physiological underpinnings of behaviour.

*Pre-requisites:* PSY 200F and PSY 201S (Recommended PSY 100 and 209ES) and P.I.

*Instructor:* TBA

**PSY 355ES Laboratory in Psychobiology, 1L, 3P**

Supervised demonstration experiments designed to familiarise students with methods of collecting, analysing, and reporting data in ethological and physiological experiments employing animal subjects. Students will also learn how to handle selected species of animals.

*Pre-requisites:* PSY 200F, PSY 201S and either PSY 209ES or PSY 213EF

*Instructor:* M. Moscovitch

**PSY 356ES Laboratory in Social Psychology, 1L, 3P (Not offered in 1972–73)**

Independent research projects in the general area of social psychology. Each project will include the design of an experiment, data collection, and a written report. Subject matter for the projects can be anything within the general area of social psychology and is limited only by the facilities of equipment available or the students' ingenuity in constructing or arranging such facilities and equipment.

*Pre-requisites:* PSY 200F, 201S, 203EF

*Instructor:* TBA

**PSY 362ES Animal Behaviour and Ethology, 3L**

A study of the social behaviour of organisms (human and non-human) as observed and measured in both laboratory and field settings.



*Pre-requisites:* PSY 100, PSY 213EF and some statistics recommended.  
Available to Second Year students on P.I.

*Instructor:* L. Krames

- PSY 364ES **Social Psychology: Attitudes, 3L** (Not offered in 1972–73)  
Intensive study of social attitudes and opinions—their development, description and measurement, modification, and organisation.  
*Pre-requisite:* PSY 203EF and P.I.  
*Instructor:* TBA
- PSY 365ES **Social Psychology: Inter-personal Behaviour, 3L**  
Detailed analysis of some of the determinants and consequences of various forms of social interaction; conformity and social influence, social comparison, affiliation.  
*Pre-requisite:* PSY 203EF and P.I.  
*Instructor:* TBA
- PSY 366ES **Social Psychology: Social Perception, 3L**  
Examination in depth of the ways in which people view others and of the psychological processes underlying these views: impression formation, ingratiation and the presentation of self, cognitive consistency.  
*Pre-requisite:* PSY 203EF and P.I.  
*Instructor:* R. M. Rosenbaum
- PSY 368EF **Developmental Psychology: Childhood, 3L**  
A survey of contemporary research and theory in the scientific study of the behaviour of children.  
*Pre-requisite:* PSY 218EF is strongly recommended and P.I.  
*Instructor:* C. Corter
- PSY 370ES **Motivation, 3L** (Not offered in 1972–73)  
A view of the crucial variables which serve as an impetus to behaviour in both human and non-human organisms.  
*Pre-requisite:* Recommended PSY 100 and PSY 209ES. Available to second year students on P.I.  
*Instructor:* M. Moscovitch
- PSY 371EF **Advanced Physiological Psychology, 3L**  
Current areas of research in physiological psychology will be explored in detail. These areas will include the following: the hormonal basis of human and animal behaviour, the development of motivational

systems and perceptual capacities, the physiological bases of memory, language, and other higher cortical functions in man, and the neurochemical bases of sleep and emotion.

*Pre-requisite:* PSY 209ES and P.I.

*Instructor:* M. Moscovitch

PSY 372EF **Psychophysiology, 3L**

Examines the interrelationships between physiological and psychological aspects of behaviour. The emphasis is on studies employing human subjects whose physiological responses are recorded on a polygraph while stimuli are presented which are designed to influence mental, emotional or motor behaviour.

*Pre-requisite:* PSY 218EF and P.I.

*Instructor:* K. R. Blankstein

PSY 373ES **Comparative Psychology of Learning, 3L**

The learning capacities of a number of different kinds of animals will be discussed and compared. Consideration will be given to theoretical and practical problems encountered in attempting to understand the evolution of learning capacities.

*Pre-requisite:* PSY 218EF and P.I.

*Instructor:* T. M. Alloway

PSY 380ES **Developmental Psychology: Early Social Behaviour, 3L**

An examination of research on topics such as attachment, dependency, and peer relations in infants and young children.

*Pre-requisite:* PSY 368EF and P.I.

*Instructor:* C. Corter

PSY 400E **Thesis Research**

In addition to periodic seminars, students will conduct independent, though supervised, research and write a thesis based upon the work.

*Pre-requisites:* PSY 200F, 201S, one year of Psychology laboratory courses and a good background in psychological course work. For fourth year students only, and with permission of a supervisory staff member

PSY 405E **Current Issues in Psychology, 3T**

This seminar course attempts to integrate strands of psychological thinking from the various more specific courses which the student has already taken. Staff members will examine theories and findings from their own area of interest and place them in a broader context.

*Pre-requisite:* P.I. For third and fourth year students with a good background in psychological course work  
*Instructor:* Staff

PSY 410ES\* **Topics in Developmental Psychology, 3T**  
*Pre-requisites:* PSY 200F, 201S and P.I.  
 For fourth year students

PSY 412EF **Individual Project**  
 Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.  
*Pre-requisites:* PSY 200F, 201S, a laboratory course and P.I.  
*Instructor:* Staff

PSY 413ES **Individual Project**  
 Designed for students desiring to pursue independent research into a specific aspect of human or animal behaviour.  
*Pre-requisites:* PSY 200F, 201S, a laboratory course and P.I.  
*Instructor:* Staff

PSY 415ES\* **Theories of Psychotherapy, 3T**  
*Pre-requisite:* PSY 200F, 201S, and P.I.  
 For fourth year students

PSY 420EF\* **Topics in Social Psychology, 3T**  
*Pre-requisites:* PSY 200F, 201S, and P.I.  
 For fourth year students

PSY 425EF\* **Topics in Abnormal Psychology, 3T**  
*Pre-requisites:* PSY 200F, 201S, and P.I.  
 For fourth year students

PSY 430EF\* **Topics in Comparative Psychology, 3T**  
*Pre-requisites:* PSY 200F, 201S, and P.I.  
 For fourth year students

PSY 435ES\* **Topics in Learning, 3T**  
*Pre-requisites:* PSY 200F, 201S, and P.I.  
 For fourth year students

PSY 440ES\* **Computer Applications, 3T**  
*Pre-requisites:* PSY 200F, 201S, and P.I.  
 For fourth year students

**PSY 445ES\* Topics in Motivation and Arousal, 3T**

*Pre-requisites:* PSY 200F, 201S, 370ES and one year laboratory course work in Psychology, and P.I. For fourth year students

**PSY 450EF\* Topics in Personality, 3T**

*Pre-requisites:* PSY 200F, 201S, 204ES, and P.I. For fourth year students.

\*Only one or two of these courses will be offered in 1972–73. Details about fourth year seminars may be obtained from the Registrar or from any psychology professor during the registration period.

### **RELIGIOUS STUDIES**

Faculty Adviser: Professor L. J. Elmer

Religious Studies, as an academic discipline, is based upon a recognition of the fundamental significance of religion for man and society. Its intent is to provide students with an opportunity to deepen their understanding of man and his institutions and to explore in various ways the ultimate questions and convictions which have affected the foundations of his life throughout history. Among the perspectives and methods involved in the courses are those of History, Philosophy, Psychology, Anthropology, and Sociology.

Historically, man has expressed his profoundest convictions, questions, aspirations, and fears in many ways. His art, philosophy, conduct, social institutions, even his theories about the physical universe, have conveyed and illuminated his measure of himself and of the world in which he lives. From time to time these forms of expression coalesce within a particular pattern and tradition which we may identify as a “great” or a “world” religion, but along with such religions—both within them as well as outside them—are the individuals, each with his own personal convictions, values and interpretations of experience and of the symbols by which he represents to himself the ultimate concerns of life. The examination of all this constitutes the academic enterprise which we title Religious Studies.

A specialist programme normally requires an academically coherent combination of at least ten courses in Religious Studies or courses officially cross-listed by the Combined Departments of Religious Studies chosen in consultation with a faculty adviser so as to serve the interests of the student. It is ordinarily expected that the Programme will take four years. A coherent Programme should expose the student to a range of world religions and approaches to the study of religion. Suggested combinations of courses are outlined in the departmental brochure, available at the College Registrars’ office.

**REL 100 Religious Traditions, East and West, 2L, 1T**

An introductory course in exploring the major living religious



traditions of the East and West. Citations from the sacred scriptures of these religions will be studied in translation. Comparisons in ideas, attitudes, beliefs and practices will be considered. Pictorial data, slides and films will be used in describing the rituals and ceremonies of the diverse religions. The breadth of the course will deepen one's understanding of man's profoundest religious expressions, aspirations, convictions and concerns in life.

*Instructor:* S. S. Nigosian

**REL 203 Religion and Imaginative Literature, 2L, 1T**

Analysis and interpretation of different kinds of religious insights in great authors; developments of responsible approaches to the seriousness of the concerns expressed in various kinds of literature: Dostoievsky, Tolstoy, Joyce, Eliot, Mauriac, Bernanos, Camus, Miller, Salinger, Updike, St. Exupery. (May not be combined with REL 302, 1971-72 Calendar.)

*Instructor:* M. Lavelle

**REL 230E The Roles of Religion in Human Development, 2L, 1T**

(I)

The positive and negative roles which religion has played and continues to play in human development and in cultural progress. A general analysis of personhood and the need in authentic human living for self transcendence. The phenomenon of faith; religion as wonder; religion as meaning; and religion as health.

*Instructor:* L. J. Elmer

**REL 375E Communication and Religious Consciousness, 2L, 1T**

The purpose of this course will be to study the development of religious identity both from a psychological (Erik Erikson: *Identity: Youth and Crisis*) and a sociological (Peter Berger: *The Sacred Canopy*) point of view, and to examine the pervasive effects of the communications media (McLuhan: *Understanding Media*) on this development. The function of mythic acts, clothes, cosmetics, dance, music, academic structures, novels, movies, newspapers, as well as more personal forms of communication (diary, autobiography, letter, etc.) in the creation of religious consciousness will be examined. (May not be combined with REL 211, 1971-72 Calendar.)

*Instructor:* L. E. Schmidt

**See also**

**GLL 190 Greek and Roman Religion and Mythology, 2L, 1T**

### SLAVIC LANGUAGES AND LITERATURES

Faculty Adviser: Professor N. Shneidman

The Slavic literary and cultural tradition represents one of the great achievements of mankind. The Department offers a range of courses in Russian language and literature to provide access to that tradition. These courses are suitable for inclusion in a wide variety of programmes of study irrespective of whether the student has studied Russian in Grade XIII or not. Some students may specialize intensively in Russian language and literature. Others may simply wish to gain a working knowledge of Russian to aid their reading of important material in another field, as for example, science or social science. Language study in the Department emphasizes skills in using literary materials, and it also employs oral methods, combining small instructional groups with laboratory and conversational practice.

Russian literature has always been concerned with meaningful and universal human problems and has looked at them from a fresh and unique point of view. Giants of world literature such as Pushkin, Turgenev, Tolstoy and Dostoevsky, explore these problems in their nineteenth century novels, plays and poetry. The continuation and development of this same tradition under new Soviet conditions in the twentieth century by writers such as the Nobel Prize Winners, Sholokhov, Pasternak and Solzhenitsyn, makes another fascinating area of study.

The specialist programme in Russian Language and Literature requires ten SLA courses over the four-year programme. The specialist programme in Slavic Languages and Literatures requires eleven SLA courses over the four-year programme. Both programmes include seven Russian "core" courses required for the Russian component in double specialization.

Erindale College offers a full range of courses required for specialization in Russian Language and Literature for the first three years of study.

First-year programme: required SLA 100, recommended SLA 110E

Second-year programme: required SLA 210, SLA 220

Third-year programme: required SLA 310, SLA 320; recommended SLA 312

Students who have taken Grade XIII Russian are admitted to SLA 220 (Intermediate Russian Language).

**SLA 100      First Year Russian, 4T, 1P**

An introductory course in Modern Russian for students with little or no prior knowledge of the language. Practice in aural comprehension, speaking, reading, and writing. Language laboratory practice.

*Instructor:* K. Lantz

**SLA 100E      Introduction to Slavic Culture and Literature, 1T, 1L (In English)**

The historical development of Slavic culture, languages, and literatures from the beginning to the present. Readings (in translation)

selected from all periods of Russian, Ukrainian, Polish, and other Slavic literatures, including works by Dostoevsky, Solzhenitsyn, Shevchenko, Mickiewicz.

*Instructor:* N. Shneidman

- SLA 210      **Nineteenth Century Russian Literature, 1T, 2L (In English)**  
 (I)      A study of the major novels of the nineteenth century with emphasis on the problem of the individual and society. Readings (in translation) of the works of Pushkin, Gogol, Turgenev, Dostoevsky, Tolstoy, and others. Students specializing in Russian will be required to do a certain amount of reading in the original.

*Instructor:* K. Lantz

- SLA 220      **Intermediate Russian, 3T, 1P**  
 (I)      Continued study of Russian with language laboratory practice, oral practice, composition and conversation based on reading of literary texts and topics of current interest.

*Pre-requisite:* Slavic 100 or Grade XIII Russian

*Instructors:* K. Lantz and N. Shneidman

- SLA 310      **Twentieth Century Russian Literature, 1T, 1L (In English)**  
 A survey of Russian literature of this century with emphasis on the Soviet period. A study of modernism; the impact of the 1917 Revolution on literature; the evolution of Soviet literary policy; contemporary problems of artistic freedom. Readings (in translation) will include works by Gorky, Bunin, Babel, Sholokhov, Pasternak, Solzhenitsyn, and others. Specialists will be required to do a certain amount of reading in the original.

*Instructor:* K. Lantz

- SLA 312      **Tolstoy and Dostoevsky, 1T, 1L (In English)**  
 A comparative study of the writings and ideas of the two novelists. Readings (in translation) will include, in addition to other works, *War and Peace* and *Anna Karenina* by L. Tolstoy and *Crime and Punishment*, *The Idiot*, and *The Brothers Karamazov* by F. Dostoevsky. Prospective students are advised to read at least two of these works in the summer preceding the course.

*Pre-requisite:* One literature course

*Instructor:* N. Shneidman

- SLA 320      **Advanced Russian, 3T, 1P**  
 Continued study of grammar, composition, and translation. Oral

practice and stylistic analysis of selected texts. Extensive reading programme.

*Pre-requisite:* SLA 220 or equivalent

*Instructor:* N. Shneidman

## **SOCIOLOGY**

Faculty Adviser: Professor W. E. Kalbach

One of the essential questions sociologists have had to confront concerns the extent to which the individual is determined by society and to what extent he is a determinant of society. In examining such questions, sociologists use the methods of science as well as those of the humanistic disciplines. The answers are not self-evident and traditional explanations often prove unreliable, both as a source of understanding and as a guide to action. In these circumstances, sociology provides another approach for assessing existing knowledge and developing more valid theories of social behaviour and the nature of society.

Students who wish to pursue careers in other fields, may gain from the study of sociology a clearer understanding of the human and social condition as it relates to their chosen profession and to contemporary institutions in general. In Canada and abroad, the demand for professional sociologists is very great for teaching, research, administrative and consulting positions. A professional career in sociology, however, usually requires advanced training beyond the undergraduate level.

*In all 200-series courses the student will be assumed to have the background knowledge provided by Sociology 101.*

### *Specialist Programme:*

The programme requires a minimum of *six* courses in sociology, including the following: soc 201 or its equivalent, one of soc 203, or 313, and at least two 300- or 400-series soc courses. Students entering this programme should enrol with the Department of Sociology before the end of the first term in their second and subsequent years.

Students should seek advice from specialists within the Department while working out their programmes.

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|---------|--|
| soc 101 | <p><b>Introduction to Sociology, 2L, 1T</b></p> <p>An introduction to the basic concepts, principles, and methods of sociology as a discipline for the study of society.</p> <p><i>Instructor:</i> M. Spencer (and others TBA)</p> |
| soc 201 | <p><b>Methods of Social Research, 2L, 1P</b></p> <p>An introduction to sociological research procedures and elementary statistics.</p> <p><i>Instructor:</i> W. Kalbach</p>  |



- soc 202      Structure of Interpersonal Relations, 3L**  
 Patterned relationships, social roles and social expectations which arise out of interaction among individuals.  
*Instructor: J. Kervin*
- soc 205      Urban Sociology, 2L, 1P**  
 Examines the city both as a significant development in world civilization and a working mechanism guided by contemporary policies and studies human behaviour in its multifaceted relations with the urban environment.  
*Pre-requisite: soc 101*  
*Instructor: H. Breslauer*
- soc 212      Sociology of Deviance, 3L**  
 A sociological analysis of deviant behaviour which examines theories of its genesis, social definition, maintenance, control, and social consequences. (Formerly soc 208E—1971–72 Calendar.)  
*Instructors: H. Breslauer and P. Lorion*
- soc 213E     Social Stratification, 3L**  
 Examines the various systems by which, in all human societies, rewards (such as prestige, power, wealth, and others) are differentially distributed, and the principal theories which have attempted to account for these phenomena. (Formerly soc 206E—1971–72 Calendar.)  
*Instructor: J. Kervin*
- soc 214E     Sociology of the Family, 2L, 1T**  
 Development of the contemporary Western family with special emphasis on the changing relations among its members. (Formerly soc 212E—1971–72 Calendar.)  
*Instructor: TBA*

Second-year students may be admitted to 300-level courses if space is available. Courses for which instructors have not yet been assigned (TBA), may or may not be offered during the 1972–1973 session depending upon final staffing arrangements. Students interested in these courses are advised to check the supplementary calendar before final registration.

- soc 303      Canadian Society, 3L**  
 An analysis of the changing structure of Canadian society.  
*Instructor: TBA*

- SOC 304     **Social Change, 3L**  
An examination of technical, social, and ideological changes accompanying industrialization in both developed and underdeveloped countries. (Formerly SOC 322E—1971–72 Calendar.)  
*Instructor:* P. Lorion
- SOC 309     **Mass Communications in Canadian Society, 2L**  
The development and impact of mass media on the society and culture of Canada with a focus on radio, film, and television.  
*Pre-requisite:* One course in sociology  
*Instructor:* A. Powell
- SOC 310EF   **Race and Ethnic Relations, 3L**  
Social processes involved in minority relations in terms of race and ethnicity and their social, economic, and political consequences.  
*Instructor:* TBA
- SOC 311     **Sociology of Education, 3L**  
An analysis of the relationship between education and society in comparative perspective; the consequences of the internal structure of educational systems; and current controversies surrounding the function and structure of educational institutions.  
*Instructor:* M. Spencer
- SOC 312EF   **Population and Society, 3L**  
An analysis of mortality, fertility, migration, and their relation to population, social structure, mobility, and social change.  
*Instructor:* W. E. Kalbach
- SOC 313     **Sociological Theory, 3L**  
The development of sociology and contributions of particular sociologists whose concepts not only have historical interest but also illumine the subject matter and method of contemporary society.  
*Instructor:* TBA
- SOC 321E     **Industrial Society, 3L**  
An examination of the impact of industrialization on social roles and institutions with special emphasis on problems arising from increasing automation and affluence. (Formerly 304s—1971–72 Calendar.)  
*Instructor:* TBA

- SOC 324EF **Political Sociology, 3L**  
 The social basis of politics. Culture and social organization in their relation to power and its application.  
*Instructor:* TBA
- SOC 326E **Strategy of Social Change, 2L, 1P**  
 The utilization of the sociological imagination in achieving desired social change by active participation in groups committed to social change.  
*Instructor:* TBA
- SOC 327E **Comparative Elites, 3L**  
 An examination of the contributions of social theorists to elite theory; and, the comparative analyses of case studies and documentary materials for the purpose of assessing the relevance of alternative elite theories for Canadian society. (Formerly soc 316E—1971–72 Calendar.)  
*Pre-requisite:* soc 101  
*Instructor:* A. Bennett
- SOC 328ES **Environmental Sociology, 3L**  
 An examination of the multi-faceted relationship between the physical environment, especially the man-made environment, e.g., buildings, and human behaviour. Principles underlying man's use of space and the potential significance of the environment as a variable in the study of human behaviour will be considered.  
*Pre-requisites:* soc 101, soc 205E or P.I.  
*Instructor:* H. Breslauer
- SOC 329ES **Collective Behaviour, 3L**  
 An analysis of non-conventional social action as seen in crowd and mass behaviour (panics, riots, demonstrations, crazes, etc.) involving study of relationships between forms of collective action and the more conventional social order, i.e., the relationship of collective behaviour to social action and control, stability and change.  
*Instructor:* TBA
- SOC 390EY **Individual Studies I**  
 Intensive research of a problem of special interest under the supervision of a member of staff.  
*Pre-requisites:* At least two Sociology courses at the 200-level and P.I.

**SOC 392EY Individual Studies II**

Intensive research of a problem of special interest under the supervision of a member of staff.

*Pre-requisites:* At least two Sociology courses at the 200-level and P.I.

**SPANISH**

Faculty Adviser: Professor M. Scarth

The student who elects Spanish will be offered a twofold goal: the first, to learn to speak, understand, read and write with ease a language shared by over two hundred million people; the second, to become familiar with the civilization and intellectual life of the Hispanic world through study of the artistic and literary phenomena of that world.

The varied programme of Spanish Studies is designed to allow the student who is interested in specialization to become qualified to enter Graduate Studies in Spanish or to enter Type A courses at the College of Education. The student may, of course, choose a combined specialization programme of Spanish and any other discipline.

The study of Spanish can also be a preparation for such careers as those in the foreign service, journalism, publishing and commercial and cultural relations between Canada and Spanish-speaking countries

Latin America, with millions of Spanish speakers, should be of vital interest and concern to North Americans. It is inevitable that Canada's ties and contacts with this area will increase as the 20th century draws to a close. Thus opportunities for persons well versed in the Hispanic field should likewise multiply.

The language laboratory is used to promote fluency and after the first year, all courses, both literary and linguistic, are conducted in Spanish as much as possible in order to give the student maximum exposure to the language.

In the 300 and 400 series, courses will only be offered if there is sufficient enrolment. Courses so deleted, and others, may be taken on the St. George Campus with the permission of the Discipline Representative. *Early consultation with the staff is, therefore, essential if the student is to be assured of a programme suitable for his needs and interests.*

**SPA 100E Beginning Spanish, 3L, 2P**

For those who have had no previous background in Spanish. By the end of the year, students should have acquired sufficient skill in the written and spoken language to be able to specialize in Spanish if they wish. Emphasis will be placed on oral practice both in class and in the language laboratory.

*Instructor:* Staff

**SPA 191 Spanish Civilization and Culture (in English), 2L**

Presents an overall view of the activities of the Spanish people from the



early settlers of the peninsula to the current scene. Using the history of the country as a basic frame, the course will deal with the main currents of thought and the major accomplishments in literature, art, architecture and music. Slides, music and other illustrative material will be used.

*Instructor:* M. Scarth

- SPA 192      **Latin American Civilization and Culture** (in English), 2L  
From the pre-Columbian civilization (Aztec, Maya and Inca) to the present; significant manifestations in literature, art, music, architecture. Discussion of social, economic and political problems of Latin America. Illustrative material.

*Instructor:* E. Neglia

- SPA 220E      **Intermediate Grammar and Composition**, 2T  
(I) Conducted mainly in Spanish and designed for those who have completed a basic course in the language. Reinforces and refines students' knowledge of Spanish to allow a greater range of expression and a broader understanding of the language.

*Pre-requisite:* SPA 100 or equivalent/Gr. XIII and P.I.

*Instructor:* TBA

- SPA 222Y      **Conversational Spanish**, 1T  
(I) Stresses idiomatic speech. Classes will include general conversation, short talks, reports on subjects of topical interest, discussion of short stories.

*Pre-requisite:* SPA 100/Gr. XIII SPA or equivalent and P.I.

*Instructor:* E. Neglia

- SPA 246EF      **Introduction to Modern Spanish Drama**, 2T  
(I) An introduction to the modern Spanish stage as portrayed by several leading playwrights in a variety of dramatic productions. In Spanish as much as possible.

*Pre-requisite:* SPA 100/Gr. XIII SPA or equivalent

*Instructor:* M. Scarth

- SPA 257S      **Readings from Modern Spanish Prose**, 2T  
(I) Several modern short stories and essays will be studied not only for their literary value but for the insight they provide into social and intellectual problems. In Spanish as much as possible.

*Pre-requisite:* SPA 100/Gr. XIII SPA or equivalent

*Instructor:* M. Scarth

**SPA 320EY Creative Spanish, 1T**

Conducted mainly in Spanish and designed to meet the needs of those who already have a good basic knowledge of the language. Emphasis on improvement of style, translation, essay writing and oral practice.

*Pre-requisite:* SPA 220E or equivalent and P.I.

*Instructor:* O. Hegyi

**SPA 325ES History of the Spanish Language, 2T (Not offered 1972-73)**

The course will begin with an introduction to phonetics, phonology and basic concepts of linguistics. It will then proceed to the study of the evolution of Spanish from its vulgar Latin origins up to the present day, in its phonetic, morphologic, syntactic and lexical aspects. An attempt will be made to relate linguistic development to historical and cultural aspects. Some general knowledge of Latin is desirable. Interest in theoretical linguistics and a working knowledge of Spanish will be assumed. Course is given in Spanish.

*Pre-requisite:* SPA 220E or equivalent

*Instructor:* O. Hegyi

**SPA 343EF Golden Age Drama, 2T**

The evolution of drama through the study of individual dramatists will be pursued from Lope de Vega to Calderón. The course will be given in Spanish.

*Pre-requisite:* SPA 220E or equivalent and one other course of the 200 or 300-series, and P.I.

*Instructor:* O. Hegyi

**SPA 346S Modern Spanish Drama, 2T**

The course will cover the period from the Romantic Drama of the eighteen-thirties up to the present day. The course will be given in Spanish.

*Pre-requisite:* SPA 220E or equivalent

*Instructor:* E. Neglia

**SPA 353EF Don Quijote and the Novel of the Golden Age, 2T (Not offered 1972-73)**

Special consideration will be given to the picaresque novel, with the later part of the course dedicated to Cervantes. The course will involve extensive readings of original texts and it will be given in Spanish.

A good working knowledge of Spanish is assumed.

*Pre-requisite:* SPA 220E or equivalent and one other course of the 200 or 300-series

*Instructor:* O. Hegyi

- SPA 356ES Modern Spanish Novel, 2T** (Not offered 1972–73)  
 The course will cover the period from the beginnings of the realistic novel in the nineteenth century up to the present day. Students will be expected to do a certain amount of reading of original texts as a preparation for their classes and a good working knowledge of Spanish is assumed as the course will be given in Spanish.  
*Pre-requisite:* SPA 220E or equivalent and P.I.  
*Instructor:* O. Hegyi
- SPA 366ES Modern Spanish American Poetry, 2L**  
 A study of some major poets and the different currents in Spanish American poetry; Pablo Neruda, César Vallejo for special study.  
*Pre-requisite:* One or more SPA 200-series courses or equivalent  
*Instructor:* E. Neglia
- SPA 376F Modern Spanish American Drama, 2L** (Not offered 1972–73)  
 The development of realism in Spanish American drama; the rural theatre; the themes of justice and freedom in the modern plays.  
*Pre-requisite:* One or more SPA 200-series courses or equivalent  
*Instructor:* E. Neglia
- SPA 382ES Modern Spanish American Novel, 2L** (Not offered 1972–73)  
 A study of the representative novels of Spanish America, including the regional and the Indianist novel as well as that of the Mexican revolution.  
*Pre-requisite:* One or more SPA 200-series courses or equivalent  
*Instructor:* E. Neglia
- SPA 385F Spanish American Story and Essay, 2L**  
 Representative works of outstanding Spanish American essayists and short story writers including Sarmiento, Rodó, Quiroga, Borges, etc. will be studied.  
*Pre-requisite:* One or more SPA 200-series courses or equivalent  
*Instructor:* E. Neglia
- SPA 393 Spanish History from 1815 to the Present** (in English), 2T (Same as HIS 393) (Not offered in 1972–73)  
 Conducted in English, this course is designed for Spanish and History students. An investigation will be made into how nineteenth century Spain prepared the ground for the Civil War (1936–1939) and Franco's Regime.  
*Pre-requisite:* P.I.  
*Instructor:* J. Webster

- SPA 394     **Spanish History from 1469–1815** (in English), 2T (Same as HIS 394)  
 Conducted in English, for History and Spanish students. Beginning with the reign of Ferdinand and Isabella (the Catholic Monarchs), the course is planned to give some idea of Spain's Golden Age and period of decline.  
*Pre-requisite:* P.I.  
*Instructor:* J. Webster
- SPA 420ES     **Advanced Composition and Stylistics**, 2T  
 Designed for those who already have a good knowledge of the language. Emphasis on ability to write good Spanish style and on the improvement of the facility through translation, essays, letters, etc.  
*Pre-requisite:* SPA 320EY or equivalent and P.I.  
*Instructor:* TBA
- SPA 421EY     **Independent Language Study**  
*Pre-requisite:* SPA 420EY and P.I.  
*Instructor:* J. Webster
- PRT 200EF     **Beginning Portuguese—Part II**, 2T, 1P (Not offered 1972–73)  
 A continuation of Beginning Portuguese, Part I (Not offered 1972–73).  
*Pre-requisite:* PRT 200EY, Part I  
*Instructor:* J. Webster

## SURVEY SCIENCE

Faculty Adviser: G. Gracie

Survey science is used to measure and represent the geometric and physical features of any space. Accordingly, survey science is of fundamental importance in a variety of activities, which may include mapping the earth's surface and charting its waters, establishing land boundaries and delineating property, searching for and inventorying natural resources, studying the figure of the earth, and locating transportation facilities and other engineered structures. Recent activity includes topographic mapping of the moon's surface using metric photography acquired by Apollo spacecraft.

Survey science relates to many other disciplines, particularly those which deal with the earth and its environment. Moreover, increased sophistication in measuring and data processing procedures has brought survey science into close alignment with the basic disciplines of mathematics, statistics, computer science and physics.

Students intending to become professional surveyors will satisfy the academic requirements of the Association of Ontario Land Surveyors by completing a



four-year programme of study which includes MAT 135E, STA 232, CSC 108F or CSC 148F, PHY 110 or PHY 120E, GEO 100E, GGR 241E, GGR 373E, SUR 100E, SUR 210E, and the additional listed Survey Science courses.

**SUR 100E Introduction to Surveying, 2L, 3P**

Introduction to the procedures used to acquire field data, process survey information, and present results in various forms, with consideration given to geodetic, cartographic, hydrographic, cadastral and engineering applications.

*Pre-requisite:* Grade XIII A or MATHS 1 & 2

*Instructor:* G. Gracie

**SUR 210E Geodesy, 2L, 2P**

The figure of the earth and the precise determination of position and height on or near the earth's surface. Fundamentals of geometrical geodesy, geodetic astronomy, physical geodesy, satellite geodesy and map projections.

*Pre-requisites:* MAT 135E, PHY 110/PHY 120E

*Instructor:* TBA

Beginning in 1973–74, the course offerings in Survey Science will be expanded to include second, third and fourth year courses in:

Photogrammetry, Land Surveying, Measurement Theory and Adjustment of Observations, Survey Law, Data Management and Representation, Professional Practice, Survey Control, Survey Design and Synthesis.

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# ERINDALE CAMPUS

Faculty of Arts and Science

University of Toronto



**Supplement to Calendar**  
**1972 -73**





THE INFORMATION IN THIS SUPPLEMENT TO THE CALENDAR SUPERSEDES THE INFORMATION IN THE ERINDALE COLLEGE CALENDAR, 1972-73, AND THE STUDENT IS URGED TO NOTE CAREFULLY ANY CHANGES THAT HAVE BEEN MADE. DELETIONS, ADDITIONS AND CHANGES IN TIMETABLE SINCE THE CALENDAR WAS PUBLISHED ARE INCORPORATED IN THIS REVISION.

(BUS SCHEDULE APPEARS ON FINAL PAGE)

## ACADEMIC DATES AND DEADLINES

### 1972

August 14-18	Supplemental Examinations.
August 30-31	Registration - local First Year students.
September 4	Labour Day (University Closed).
September 5	Registration - non-local First Year students.
September 6-7	Registration - Second Year students.
September 7-8	Registration - Third Year students.
September 9	Registration - Fourth Year students.
September 11	Classes begin. Late registration fee imposed.
October 6	Last day for changes in first term and full courses.
October 9	Thanksgiving Day (University Closed).
November 15	Last day to complete: <ul style="list-style-type: none"> <li>- confirmation of programme.</li> <li>- withdrawal from an extra first term (F) course without academic penalty.</li> </ul>
December 8	First Term Classes end.
December 11-13	Term Test period.
December 14-20	Examination period for F courses.

### 1973

January 2	Second term fees due.
January 8	Second term classes begin.
January 15	Late fees fine applied.
February 1	No second term course may be begun after this date.
February 11-18	Reading Week - No classes.
February 15	Last day to withdraw from an extra course, a second term course (S) or (Y) half course or from the University without academic penalty or for a Transfer to Extension.
April 13	Classes end. All term assignments should be completed by this date.
April 19-May 11	Annual Examinations.
April 20	Good Friday (University Closed).

GENERAL INFORMATION

Students should read carefully the Requirements for Standing as shown on pages 36-40 of the Erindale College Calendar, 1972-73.

Your attention is directed to the following requirements as stated in the Calendar. Five full courses are required for full-time students. It is the student's duty to ensure that all pre-requisites, co-requisites and exclusions are complied with. Any two half-courses can be combined to form a full course. An extra half or full course may be taken but no credit will be given for it. A student cannot obtain credit twice for the same course even if the course has a different number.

Counselling for students is available at all times from the course instructor, faculty advisors, the Registrars, the Deans, the Principal.

A Writing Laboratory will open for the first time at Erindale College this year. Students may consult a Writing Lab. tutor for assistance with their writing of academic essays, book reports, seminar presentations, etc. For further information call Professor Van Fossen at 828-5262.

If you intend to Specialize in a particular subject(s) please consult the Faculty Advisor in that subject and have him examine your course selection. If you intend to qualify for a Type A Specialist Secondary School Teacher's Certificate please consult with the Registrar of the College of Education as to the current requirements.

A complete Medical Service is available at the Health Service, Room 114.

Living accommodation enquiries should be addressed to Mr. M. Lavelle, Room 273, or Mrs. G. Sterling, Room 274.

Enquiries with regard to student loans, scholarships and bursaries should be addressed to Mrs. L. Webber, Room 219A.

Counselling for Extension students is available. Please direct your enquiries to Mrs. M. Cooper, Room 240. Part-time students in the Division of Extension may take up to three courses during the winter session and these courses may be taken in the evening or with the regular day classes.

For students intending to enter Medicine there has been a slight alteration in the requirements. They now read: "Two years with high standing required for selection. Courses should include CHM 120E, PHY 110, BIO 100E, CHM 240EF, and one of CHM 230ES, CHM 245ES, CHM 270EF; STA 232 is recommended". Erindale College requires MAT 135 or MAT 110EF/120ES as a co-requisite for CHM 120E and PHY 110.

LETTER ABBREVIATIONS

E	Course given only at Erindale
F	Half course - Fall term only
L	Lecture hours
P	Practical or laboratory hours
P.I.	Permission of Instructor
R	Thursday
S	Half course - Spring term only
T	Tutorial hours
Y	Half course - i.e. indicates a half course which must be taken throughout both terms
/	means "or"
&	means "and"
(I)	May be taken by first year students
TBA	To be announced



1972-73 FACULTY LISTANTHROPOLOGYRoom

Professor F. J. Melbye	205
*Professor A. Mohr	248D
Professor L. W. Reinhardt	210
Dr. L. L. Sample	248C
Professor B. A. Sigmon	248A
Professor R. Vanderburgh	210

ASTRONOMY

Professor C. T. Bolton	4060
Professor J. R. Percy (on leave of absence 1972-73)	
*Professor R. Racine	4060

BIOLOGYBotany

Professor P. W. Ball	3034
Professor W. G. Fillion	3033
Professor R. A. Frost	3046
Professor P. A. Horgen	3038
Professor P. F. Maycock	3037
Professor P. V. Rangnekar	3042
Professor G. R. Thaler	3041

Microbiology

Professor A. Guha	3047
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Zoology

Professor W. T. Geiling	3049
Professor D. L. Gibo	3045
Professor G. K. Morris	
Professor D. H. O'Day	4053
Professor P. J. Pointing	3051
*Professor B. I. Roots	3048
Professor W. G. Sprules	3050
Mr. R. Stephens	4004

CHEMISTRY

Professor J. M. Deckers	4052
Professor M. Moskovits	4055
Professor G. A. Ozin	4055
Professor A. J. Poë	4056
Mrs. J. C. Poë	4049
Professor E. A. Robinson	233
*Professor I. W. J. Still	4049
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Mr. W. R. Rauenbusch	129
*Professor M. Sommers	126

COMPUTER SCIENCE

Mr. J. K. Metzger	4003
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EARTH AND PLANETARY SCIENCES

Professor K. C. Burke (Geology)	3004
Professor D. J. Dunlop (Physics)	4050
Professor D. H. Gorman (Geology)	3004
*Professor H. C. Halls (Physics)	3004
Mr. W. Kidd (Geology)	3030
Professor J. B. Waterhouse (Geology)	3004
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Professor A. Donner	276
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*Professor M. J. Hare	275A
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Professor D. B. Hill	30
Mr. U. Kareda	19
Professor D. I. Lancashire	27
Mr. M. Levene	25
Mr. R. R. McLeod	20
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Mrs. J. Le Gall	291A
Mrs. M. I. Raine	293
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Professor M. Mather	4062
Professor F. D. Tall	4062
*Professor S. M. Trott	4002

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Miss G. Jones	289A
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Professor A. Rosenthal	6
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Mr. A. I. F. Urquhart	2

PHYSICS

Professor R. F. Code	4039
Professor D. Dunlop	4050
Professor H. Halls	3004
Dr. R. G. Johnson	4004
Professor P. P. M. Meincke	2043
Professor G. I. A. Stegeman	4047
*Professor H. W. Taylor	4042
Professor S. H. Vosko	4046
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POLITICAL SCIENCE

Professor J. Barros (on leave first term, 1972)	4044
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Professor R. Gregor	4061
Professor A. A. Kontos	4048
*Professor B. Kovrig	4058
Professor S. A. Lakoff	286
Professor F. W. Peers	4061
Mr. I. Scott	4044
Professor D. V. Smiley	4040
Professor J. E. Smith	4044
Professor P. H. Solomon	4048

PSYCHOLOGY

Professor T. M. Alloway	3036
Professor K. R. Blankstein	3044
Professor C. M. Corter	4038
*Professor F. I. M. Craik	3043
Mr. M. Drillings	3043
Professor L. Krames	3039
Professor M. Moscovitch	3035
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SOCIOLOGY

Professor A. M. Bennett	3006
Professor H. J. Breslauer	3005
Professor L. Felt	3058
*Professor W. Kalbach	3059
Professor J. B. Kervin	3053
Professor P. Lorion	3002
Mr. A. T. R. Powell	3003
Professor M. W. Spencer	3057

SPANISH

Professor O. Hegyi	294B
Professor E. G. Neglia	136
*Professor M. J. Scarth	135
Professor J. Webster	134

SURVEY SCIENCE

*Professor G. Gracie	4035
Professor R. C. Gunn	4035

(\* FACULTY ADVISOR)



ADDITIONS TO THE 1972-73 ERINDALE COLLEGE CALENDAR

The following new courses have been added since the Calendar was published in March.

BIO 480EF Biology Research Project

A research project carried out under the supervision of a staff member. Open to third or fourth year students. Written consent of staff member supervising the project must be obtained for registration. A third year student can only register for either 480EF or 480ES.

BIO 481EF Biology Research Project

Open only to fourth year students. Written consent of staff member must be obtained for registration.

COM 300 The Legal Environment of Business, 2L

This course was previously listed as not being offered for the 1972-73 academic year. See page 70 of Calendar.

CMM 320E Communications II, 3L

This is a course designed to familiarize students with the media of radio, TV and print. The preparation of academic material for presentation within these media will be explored. Seminars, guest lecturers and practica will be included in the curriculum.

Instructor: A. Rosenthal

ECO 325S Advanced Economic Theory - Macro, 2L

To develop analytical skills in constructing and solving macro-economic models with particular reference to the Canadian economy.

Pre-requisite: ECO 202 (204F & 205S) and MAT 134 (or equivalent); or P.I.

Instructor: A. W. Donner

ECO 326F Advanced Economic Theory - Micro, 2L

The course focuses on theories and techniques of decision-making by firms and households. It examines the problem of measuring economic welfare, and the merits and shortcomings of the market mechanism in promoting it.

Pre-requisite: ECO 200 and MAT 134 (or equivalent); or P.I.

Instructor: H. A. J. Green

- GGR 255ES Perspectives on Current Population Issues, 2L, 2T  
 Issues in current discussions of the "population problem" are examined in light of historical writings. Optimum population, population size and political strength, the tradition of pessimism in population theory, and Marxist positions.  
 Instructor: C. Houston
- HIS 444 The French in the Contemporary World, 1871-1962, 2L  
 Major topics and themes in the political, social, diplomatic and intellectual history of modern France. First term devoted to preliminary exploration and reading on specific aspects agreed upon between the instructor and the students.  
 Instructor: Miss Mary Mosser
- POL 304 Politics of the Third World (This course was previously listed as not being offered for the 1972-73 academic year.)  
 This course will involve the study of the major theories of political development. Case study material will be drawn primarily from tropical Africa.  
 Instructor: Mr. Ian Scott
- POL 413S Provincial and Local Government  
 This course was previously listed as not being offered for the 1972-73 academic year. See page 141 of Calendar.
- PRT 200EF Beginning Portuguese - Part II  
 This course was previously listed as not being offered for the 1972-73 academic year. See page 162 of Calendar.
- INI 202 Canadian Culture and Society, 1L, 1T, 1P  
 By special arrangement with Innis College, Erindale students may enrol in this course.  
 An introduction to aspects of Canadian culture and society for students for whom English is a second language. Guest lecturers from disciplines such as Geography, History, Political Science, Economics, Anthropology, Sociology and Architecture meet with the class to explore in more depth those questions raised in the preliminary 6-week orientation period. The facilities of the Erindale College Writing Laboratory are available for help in the preparation of written and oral reports.  
 Enrolment limited to 15 students.  
 Instructor: Mrs. H. Davidson & others.  
 Erindale students who take this course will attend weekly lectures on the St. George Campus on Tuesdays at 6:00 p.m., (1st lecture September 12, Room 2102, Sidney Smith Hall) followed at 7:00 p.m. by a seminar for the Erindale group only. Weekly tutorial meetings at the Erindale College

Writing Laboratory will be arranged.

Further information and an outline of the course of study can be obtained from Professor Van Fossen, Room 17, Humanities Hut, telephone 828-5262, and from the Registrar's Office.

THE DESCRIPTIONS OF THE FOLLOWING COURSES HAVE BEEN CHANGEDGGR 363E Geography of the Soviet Union, 2L, 1T

A survey of the geography of the Soviet Union through an examination of topics ranging from the territorial expansion of the Russian state to contemporary issues in planning and development. Comparison of Soviet conditions with more familiar North American situations.

Pre-requisites: One full GGR course/P.I.

Instructor: C. Houston

POL 101 Introduction to Political Science, 2L

An examination of political life from a philosophical perspective. A broad but meaningful definition of politics is advocated. Emphasis is placed on the tension between the individual and society drawing from a diverse set of texts; philosophical, political and literary.

Instructor: A. A. Kontos

CHANGES IN COURSE NUMBERS

- P. 77 ECO 351E has been changed to ECO 351EF.
- P. 85 ENG 372E has been changed to ENG 377E.
- P. 85 ENG 376E has been changed to ENG 384E.
- P. 125 STA 332S has been changed to STA 332F.
- P. 125 STA 342F has been changed to STA 342S.
- P. 152 SLA 100E should read SLA 110E.
- P. 157 SOC 324EF has been changed to SOC 324E.



COURSES DELETED FROM THE 1972-73 ERINDALE COLLEGE CALENDAR

BIO 324E	Animal Physiology
BIO 420EF	Photosynthesis and Productivity
BIO 421EF	Physiology of Nervous Systems
BIO 424ES	Physiology of Sense Organs
GRK 120F	Socrates on Trial
GRK 123S	The Wanderings of Odysseus
GLL 206F	Socrates
HIS 402E	Historiography Seminar
LAT 120S	The Poetry of Catullus
LAT 123F	Cicero in Court
LAT 219F	Roman Comedy
LAT 220S	Lucretius
MAT 340EF	Advanced Abstract Mathematics I
MAT 345ES	Advanced Abstract Mathematics II
STA 357	Probability
POL 321S	Empirical Political Theory and Its Critics
POL 430	Workshop in Political Science
PSY 365ES	Social Psychology: Inter-personal Behaviour
SOC 304	Social Change
SOC 310EF	Race and Ethnic Relations
SOC 326E	Strategy of Social Change
SOC 329ES	Collective Behaviour
INE 100	University 100

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
ANT 100E	Intro. to Anthropology	Melbye & Reinhardt	TR11	292		
ANT 100E	Intro. to Anthropology	Hurley	R7:30-9:30 p.m.	287		
ANT 204E (I)	Soc. & Pol. Organization	Reinhardt	R1-3	248		
ANT 204E (I)	Soc. & Pol. Organization	Weissleder	W7:30-9:30 p.m.	239		
ANT 205E	Tech., Soc. & Culture	Reinhardt & Vanderburgh	T3-5	248	P.I.	
ANT 207EF (I)	Folklore	Sample	WF9	234	P.I.	
ANT 208ES (I)	Advanced Folklore	Sample	WF9		ANT 207EF & P.I.	
ANT 209E (I)	Religion in Culture	Vanderburgh	MW1	111		
ANT 220EF (I)	Arch. Field Methods	Mohr	W3-5	248	ANT 100 & P.I.	ANT 100 & P.I.
ANT 225E (I)	North American Archaeology	Mohr	TR10 Lab.W1	234		
ANT 226E (I)	Old World Prehistory	Sample	TR1	279		
ANT 233E	Intro. to Physical Anthropology	Sigmon	T1-3 Lab.R1-3	250	ANT 100E/P.I.	
ANT 233E	Intro. to Physical Anthropology	Melbye	M7:00-10:00 p.m.	239A	ANT 100E/P.I.	
ANT 241E (I)	Indians of North America	Mohr	MW11 Lab.T4	265		
ANT 304ES	Canadian Indian Societies	Vanderburgh	R7:30-9:30 p.m.	285	ANT 204E/ANT 241E & P.I.	
ANT 320EF	Adv. Arch. Field Methods	Mohr	R3-5	248	ANT 220EF & P.I.	
ANT 334E	Skel. Bio. of Prehistoric Peoples	Melbye	TR10 Lab.R3-5	250	P.I.	
ANT 338E	Palaeontology and Anatomy	Sigmon	Lab.M1-4	250	ANT 233E/BIO 251E /P.I.	
ANT 397EY	Independent Study	Staff			P.I.	
ANT 398E	Independent Reading	Staff			P.I.	
ANT 399E	Independent Research	Staff			P.I.	

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
AST 100	Introduction to Astronomy	Bolton	MR4	2056		
AST 310EF	Solar System Astrophysics	Racine	F11	C		1-300 PHY course/P.I.
AST 320ES	Stellar & Galactic Astrophysics	Racine	F11			1-300 PHY course/P.I.
BIO 100E	The Study of Life	Thaler & Staff	a)TR9 b)TR11	2059 2059		
BIO 100E	The Study of Life		Lab.M/T/W/R/F2-5 W7:00-10:00 p.m.			
BIO 110E	Field Biology	Gibo & Ball	T11-1 Lab.F1-4	2056		
BIO 130E	Man and the Environment	Frost & Pointing	TR10	1074		
BIO 230E	Ecology	Sprules, Maycock Pointing, Geiling	TR10 Lab.I2-5	239	BIO 110E rec. & P.I.	
BIO 240E	Genetics	Gibo & Filion	MW1 Lab.M/W2-5	2056	BIO 100E/110E	BIO 260E
BIO 241E	Cell Biology	Silver & O'Day	MW11 Lab.M/T/W2-5	2056	BIO 100E	
BIO 250E	Plant Form and Function	Ball & Filion	MW12 Lab.R2-5	1074	BIO 100E/P.I.	
BIO 251E	Animal Form and Function	Morris & Pointing	MW10 Lab.M/W2-5	1074	BIO 100E & P.I.	
BIO 252E	Developmental Biology	O'Day	TR10 Lab.I2-5	1092	BIO 100E	BIO 241E
BIO 260E	Biometrics	Sprules	MW9 Lab.W2-5	1086		
BIO 270EF (CHM 270EF)	Introduction to Biological Chemistry	Roots & CHM Staff	F9-11 Lab.M/F2-5	2056		
BIO 320E	Plant Physiology	Rangnekar	TR11 Lab.F2-5	1086	BIO 100E, CHM 120E	
BIO 321E	Introduction to Animal Physiology	Roots	WF10 Lab.F2-5	1086	BIO 100E, CHM 120E	
BIO 322EF	Animal Behaviour I: Social Factors	Morris	TR12 Lab.T2-5	1074	BIO 100E/P.I.	
BIO 323ES	Animal Behaviour II: Physical Factors	Pointing	TR12		BIO 100E/P.I.	
BIO 330E	Plant Ecology	Maycock Frost	MW9 Lab.R2-5	1079	BIO 230E rec.	BIO 110E
BIO 332E	Freshwater Biology	Geiling	M1 Lab.M2-5	1086	BIO 110E/P.I.	

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
BIO 350E	Tax. & Evolution of Flowering Plants	Ball				
BIO 351ES	Invertebrate Form and Function	Morris	TR12 Lab.R2-5		BIO 251E and/or BIO 110E	
BIO 370E	General Microbiology	Guha	TR12 Lab.W/R2-5	1076	BIO 100E	BIO 241E rec.
BIO 371ES	Virology	Guha	TR10 Lab.F2-5		BIO 100E	BIO 370E, 241E rec.
BIO 423ES	Radioisotopes in Biology	Rangnekar	TR9 Lab.R2-5		BIO 100E, CHM 120E PHY 120E, MAT 110E & PHY 403EF rec./P.I.	
BIO 430E	World Ecosystems	Maycock			BIO 230E, 330E, 331E (1971-72), P.I.	
BIO 431E	Theoretical Ecology	Geiling & Sprules	TR9, R11	1074	BIO 230E	
BIO 432E	Applied Ecology	Frost	F9-2		BIO 230E	BIO 330E rec.
BIO 435EF	Biogeography	Thaler	T7:00- 10:00 p.m.	1096	BIO 230E/P.I.	
BIO 441EF	Electron Microscopy	Roots	R1 Lab.R2-5	1079	P.I.	
BIO 442EF	Evolution	Gibo	MW11 Lab.W2-5	1086		
BIO 443EF	Plant Breeding	Fillion			BIO 240E	BIO 260E
BIO 452EF	Current Topics in Animal Development	O'Day			BIO 241E, 252E, P.I.	
BIO 470E	Molecular Biology	Guha	M2-4 Lab.	1086	BIO 370E, 241E/eq., P.I.	BIO 370E, CHM 360E rec.
BIO 480EF	Biology Research Project					
BIO 480ES	Biology Research Project					
BIO 481EF	Biology Research Project					
BIO 481ES	Biology Research Project					
CHM 120E	Concepts of Chemistry	Robinson & Poë	MMWF10 Lab.M/T/W	2059	XIII CHM & MAT R2-5:30 A/P.I.	MAT 135 & PHY 120E (CHM spec.)
CHM 220E	Introduction to Physical Chemistry	Deckers	TR12	241	CHM 120E & P.I. APM	MAT 235E/244F 241S rec.
CHM 225ES	Principles of Chemical Spectroscopy	Moskovits	TR10		P.I.	CHM 220E



COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
CHM 230ES	Introduction to Inorganic Chemistry	Ozin & Poß	MW10 Lab. T/W/R1-5		CHM 120E	
CHM 240EF	Introduction to Organic Chemistry	Still	MW10 Lab. T/R1-5	2056	CHM 120E	
CHM 245ES	Intro. to the Chem. of Nat. Products	Winnik	TR11		CHM 240EF	
CHM 270EF (BIO 270EF)	Intro. to Biological Chemistry	CHM & BIO Staff	F9-11 Lab. M/F2-5	2056		CHM 240EF
CHM 320E	Physical Chemistry	Deckers	TR11 Lab. F9-5 Alt. Wks.	1079	CHM 220E, MAT 235/244F & APM 241S & P.I. rec.	MAT 335
CHM 330E	Advanced Inorganic Chemistry	Poß & Ozin	MW11 Lab. T1-5	1076	CHM 230ES & P.I.	
CHM 340E	Advanced Organic Chemistry	Still & Winnik	MW10 Lab. W1-5	1087	CHM 240EF & P.I. (CHM 245ES rec.)	
CHM 350E	Instrumental Methods in Chemistry	Ozin	W12 Lab. R1-5	1086	CHM 230ES (CHM 270EF/ CHM 220E rec.)	
CHM 360E	Biological Chemistry	Winnik & Poß	W6:00- 8:00 p.m.		CHM 240EF & CHM 220E /CHM 270EF (CHM 230ES rec.)	
CHM 410	Topics in Chemistry	Staff			CHM 220E, 330E, 340E & P.I.	
CHM 415	Dissertation					
CHM 419	Intro. to Research Chemistry					
GRK 100	Introductory Greek	Reid	MWF1	266		
GRH 101E	The Classical Idea	Elliott	MWF12	9		
GRH 200 (I)	Greek History to Alexander	Reid	MWF11	266		
GRH 201E (I)	The History of Rome	Elliott	TR9	9		
GRH 212 (HIS 486)	The Roman Revolution	Beck	TR11	9		
GLL 190	Greek & Roman Religion & Mythology	Reid	MW9	111		
GLL 202S (I)	The Ancient Novel	Beck	TR1			
LAT 100	Introductory Latin	Beck	MWF11	206		



COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
COM 100	Financial Accounting	Doncaster	MWF9	292		
COM 100	Financial Accounting	McCandless	M7:30-9:30 p.m.	241		
COM 221F	Management Accounting	McCandless	W3-5	241	COM 100	
COM 222S	Information Systems and Control	McCandless	W3-5		COM 221F	
COM 300	The Legal Environment of Business	Rauenbusch	W9-11	282	ECO 100	COM 222S & P.I.
COM 320	Financial Accounting Theory & Policy	McQuillan	M9-11	9	COM 222S	
COM 323	Intro. to Public Administration	Grasham	R2-4	111	COM 100/POL 100	
COM 332	Organizational Behaviour	McCandless	M2-5	9	COM 222S/P.I.	
COM 400	Marketing	Sommers	W11-1	282	COM 222S/P.I.	
CMM 220ES (I)	Communications I	Meincke	M3-5			
CMM 320E	Communications II	Rosenthal	F2-5			
CMM 330E	Deviance, Stigma & Communication	Stein	T4-6	271		
DRA 100E	European Drama	Beck & Trott	F2-4	9		
DRA 200E	Drama through Acting	Astington	MW2-4	292	P.I. (by interview) Enrolment limited	
DRA 300E	Advanced Acting & Directing	Astington	TR3-6	292	DRA 200E/eq. Enrolment limited	
ECO 100	Introduction to Economics	a) Donner b) Pesando c) Floyd	MWF10 MW11 TR9,14	287 287 287		
ECO 100	Introduction to Economics	Hare	T7:30-9:30 p.m.	241		
ECO 200	Micro-Economic Theory	Hynes	TR11	287	ECO 100	
ECO 200	Micro-Economic Theory	Floyd	R7:30-9:30 p.m.	241	ECO 100	

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
ECO 201E	European Economic History	Eddie	R1-3	285	ECO 100 OR	ECO 100
ECO 202E	Macro-Economic Theory	Pesando	MF1	241	ECO 100	
ECO 221E	North American Economic History	Easterbrook	W1-3	241	ECO 100	
ECO 230ES	Quantitative Methods	Rea	T3-5		STA 202EF & ECO 100	ECO 200, ECO 202E
ECO 251EF	Economics of Poverty	Rea	F10-12		ECO 100	
ECO 260ES	Eco. of Envir. Deterioration	Hare	M3-5		ECO 100/P.I.	
ECO 324	Economic Development	Hare	W3-5	266	ECO 200 & 202E/P.I.	
ECO 325S	Advanced Economic Theory - Macro	Donner	W1-3		ECO 202 (204F & 205S) & MAT 134 (or eq.)	
ECO 326F	Advanced Economic Theory - Micro	Green	TR11		ECO 200 & MAT 134 (or eq.)/P.I.	
ECO 328	International Economics & Policy	Hynes	T3-5	9	ECO 200 & 202E/P.I.	
ECO 336	Public Finance	Hynes	F1-3	285	ECO 200 & 202E/P.I.	
ECO 350E	Applied Micro Theory	Floyd	TR10	9	ECO 200/P.I.	
ECO 351EF	Monetary Theory & Policy	Pesando	W1-3	285	ECO 202E/P.I.	
ECO 352ES	Adv. Micro. Welfare & Growth	Fuss	M3-5		ECO 200/P.I.	
ECO 361EF	Labour Economics	Kruger	R3-5	9	ECO 200/P.I.	
ECO 362ES	Economics of the Labour Market	Rea	F10-12		ECO 200/P.I.	
ECO 400E	Reading Course					
ENG 108	Forms of 20th Century Literature	a) Levin b) Astington c) Bennett d) Corman e) Pendergrast f) McKim	WWF9 WWF10 WWF11 WWF12 WWF1 WWF2	279 279 279 279 279 279		
ENG 108	Forms of 20th Century Literature	Lancashire	W7:30- 9:30 p.m.	239A		

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
ENG 112	Major British Writers	Lancashire	WWF11	285		
ENG 152	Canadian Literature in English	Levene	WWF1	9		
ENG 165	Eng. Lit.: Forms & Approaches	McLeod	WWF2	111		
ENG 212 (I)	Shakespeare	a) Kareda	WWF9	285		
		b) Rower	WWF10	285		
		c) DeLuca	WWF2	271		
ENG 212 (I)	Shakespeare	Patterson	M7:30-9:30 p.m.	111		
ENG 218 (I)	American Authors	Hill	WWF1	292		
ENG 220	Varieties of Fiction	Hill	WWF12	285		
ENG 230 (I)	Varieties of Drama	Kareda	WWF10	5		
ENG 240 (I)	English Poetry	Rower	WWF3	5		
ENG 304	English Poetry & Prose, 1600-1660	McLeod	WWF9	271	1 ENG course	
ENG 306	English Poetry, Prose & Drama, 1660-1800	Corman	WWF2	1096	1 ENG course	
ENG 308	Romantic Poetry & Prose	DeLuca	WWF 10	271	1 ENG course	
ENG 312	Chaucer	Lancashire	WWF3	279	1 ENG course	
ENG 324	Fiction, 1832-1900	a) Hill	WWF9	5	1 ENG course	
		b) Loeb	WWF9	10	1 ENG course	
ENG 324	Fiction, 1832-1900	Hill	M7:30-9:30 p.m.	285	1 ENG course	
ENG 328	Modern Novel	Skvorecky	WWF10	265	1 ENG course	
ENG 332	English Drama to 1642	Lancashire	WWF1	5	1 ENG course	
ENG 338	Modern Drama	Kareda	WWF11	271	1 ENG course	
ENG 348	Modern Poetry	Rower	WWF4	10	1 ENG course	
ENG 354	Canadian Poetry	Levene	M7:30-9:30 p.m.		1 ENG course	
ENG 368	Victorian Prose	Webster	WWF12	234	1 ENG course	
ENG 369	Seminar in Writing	Skvorecky	M3, W3-5		1 ENG course	



COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
ENG 377E	Pol. Novel in 20th Century	Levene			1 ENG course & P.I.	
ENG 384E	Black Humour	Corman	MWF3	10	1 ENG course & P.I.	
ENG 466	Comprehensive Examinations					
ENG 467	Sem. in Literary Theory & Practice	McLeod	MWF12	5	3 ENG courses-B std.	
ENG 469	Senior Essay				3 ENG courses-B std.	
FAR 101	Ancient Art	Elliott	W11,F10-12	111		
FAR 136E	Techniques of Drawing, Painting, Design and Animation	Available ONLY to students in the Erindale-Sheridan Art Education Programme.				
FAR 137EY	Techniques of Photography	Available ONLY to students in the Erindale-Sheridan Art Education Programme.				
FRE 120	Introduction to French Studies	a) Chesneau b) LeGall c) Bourlier d) Raine e) LeGall f) Ducretet g) Ducretet	MWF9 MWF10 MWF11 MWF12 MWF1 MWF2 M7:30-9:30 p.m.	270 270 270 270 270 269 270	XIII French XIII French XIII French XIII French XIII French XIII French XIII French	
FRE 140	Studies in Mod. French Literature	Trott	TR9	279	XIII French	FRE 120
FRE 142	Man & Society in Fiction	Raine	WF3	23	XIII French	FRE 120
FRE 271	Language Practice	a) LeGall b) Findlay c) Chesneau	MWF11 MWF11 MWF11	1079 1096 1079	FRE 120 FRE 120 FRE 120	
FRE 328E	Symbolism and Surrealism	Raine	WF2	5	FRE 120	
FRE 330	Literature of French Canada	Cloutier-Wojciechowska	TR11	5	FRE 120	
FRE 352	Drama, 1600-1800	Trott	TR3	5	FRE 120	
FRE 362	Prose Fiction, 1600-1800	Findlay	TR10	270	FRE 120	
FRE 364	Prose Fiction, 1800-1900	Miller	MW4	23	FRE 120	

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
FRE 366	Prose Fiction, 1900-1950	Findlay	WF1	23	FRE 120	
FRE 368	Contemporary French Literature	Cloutier-Mościchowska	TR12	9	FRE 271 or higher	
FRE 371	Language Practice	a) Chesneau b) Ducretet	MWF11 MWF3	5 26	FRE 271 FRE 271	
FRE 372	The Structure of Modern French	Ducretet	TR3	271	FRE 120	
FRE 373	History of the French Language	Stein	TR2	9	FRE 120	
FRE 390	Independent Study	Staff			FRE 271 or higher	
GGR 171E	Man-Environment	McIlwraith Harrison	TR10	245		
GGR 171E	Man-Environment	Putnam	R7:30-9:30 p.m.	239		
GGR 202EF (STA 202)	Statistics	Andrews	MW9	2059		GGR 271E
GGR 213E (I)	Climatology	Duckworth	MW12 Lab.M9-11/1-3/3-5	1076		
GGR 231E	Intro. to Spatial Analysis	Andrews	TR1 Lab.W11-1	1076	GGR 171E/241E(1971-72)/P.I.	
GGR 241E (I)	Urban Canada	Gad	TR9 Lab.TR1-3	2056		
GGR 253E	Cultural Geography	Byrne	TR10	1086		
GGR 255ES	Perspectives on Current Population Issues	Houston	MW9			
GGR 271E	Environmental Analysis	Munday & Staff	MW10 Lab.T9-11/1-3-5	1092	GGR 171E(111E/131E 1971-72)/P.I.	GGR 202EF/P.I.
GGR 301EF	Field Studies	Staff	Lab.F2-5	3069	GGR 203E/205E(1971-72)/P.I.	
GGR 315E	Resource Development Problems	Putnam	TR1 Lab.R3-5	1092	2 full GGR courses /P.I.	
GGR 318E	Man & Vegetation Change	Byrne	TR11	1092	GGR 111E/BIO 100E/BIO 110E/P.I.	
GGR 333ES	Transportation Geography	McIlwraith	TR12		GGR 231E/P.I.	
GGR 341E	Urban Systems	Andrews	T3 Lab.W2-5	1086	GGR 231E & GGR 241E /SOC 205E/P.I.	
GGR 341E	Urban Systems	Andrews	R7:30-9:30 p.m.	295		



COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
GGR 345E	Urban Studies	Gad	TR4 Lab.M9-11/W11-1	245	GGR 271E, GGR 231E/ SOC 205E/P.I.	
GGR 351E	Hist. Geog. of Northeastern N.A.	McIlwraith	TR2	5	2 full GGR courses /P.I.	
GGR 363E	Regional Studies	Houston	TR3	1092	1 full GGR course /P.I.	
GGR 373E	Remote Sensing of Environment	Munday	MW12 Lab.R9-11/11-1	1079		
GGR 375E	Land-Use Hydrology	Duckworth	MW11 Lab.W9-11/12-2	1074	PHY 110 rec./P.I. STA 202EF/GGR 202EF	
GGR 377EF	Computer Analysis of Envir. Data	Harrison & Staff	MW2 Lab.W3-5	1079	/MAT 135E/P.I. GGR 203E	GGR 202EF /P.I.
GGR 378ES	Futures Research & Geog. Planning	Munday	MW2 Lab.W3		GGR 377EF/P.I.	
GGR 471E	Environmental Case Studies	Harrison & Staff	F11-1	1086	6 full GGR courses & P.I.	
GGR 481E	Advanced Reading Seminar	Staff			P.I.	
GGR 491E	B.A./B.Sc. Thesis	Andrews & Staff			6 full GGR courses	GGR 481E
EPS 100E	Introduction to Earth Science	Halls & Wilson	T9 Lab.R2-5	245	XIII PHY & CHM rec.	
EPS 210E	Mineralogy and Petrology	Gorman	R2 Lab.W2-5	1096	XIII CHM & EPS 100E	EPS 100E
EPS 230E	Structural Geology	Kidd	R10 Lab.F9-11	1096	EPS 100E	EPS 210E
EPS 240ES	Earth Processes		R9 Lab.		EPS 100E/GGR 111E (1971-72)/P.I.	
EPS 250E	Earth History	Burke	M10 Lab.	1096	EPS 100E	EPS 210E
EPS 310EF	Geophysical Methods	Halls	R9 Lab.T2-5	282	EPS 100E, PHY 110/ 120E	
EPS 320ES	Marine Geology	Kidd	W9 Lab.F9-12		EPS 210E	
EPS 330EF	Economic Geology		W9 Lab.F9-12	1076	EPS 210E	
EPS 340ES	Mineral Exploration	Halls	R3 Lab.T2-5		PHY 110/120E & EPS 210E	EPS 310EF
EPS 350EF	Principles of Paleontology	Waterhouse	R2-4 Lab.	1079	EPS 220E	
EPS 360ES	Paleoenvironments		TR12 Lab.		EPS 220E	EPS 350ES

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
EPS 420E	The Evolution of the Earth's Crust	Wilson & Burke	TR10 Lab.	1079	EPS 230E & 310EF	EPS 350EF & 360ES
EPS 430E	Frontiers of Earth Science	Staff	R9 Lab.	1079	4 half EPS. courses 310-360 inclusive	
EPS 440E	B.Sc. Thesis	Staff			EPS 230E & 310EF	EPS 350EF & 360ES
GER 105	Basic German A	a) Staff b) Staff	MW12 R7:30-9:30 p.m.	297		
GER 110	Language Practice I	Staff	MW10	297	3 yrs. high school GER/P.I.	
GER 120	Modern Literature	Meyer-Erlach	T2-4	297	3 yrs. high school GER/P.I.	
GER 130	Introduction to University German	a) Bauer b) Staff	MW9 T7:30-9:30 p.m.	297	3 yrs. high school GER/P.I.	
GER 205	Basic German B	Staff	TR9	297	GER 105/P.I.	
GER 210	Language Practice II	Staff	MW11	297	GER 105/P.I.	
GER 220	Enlightenment	Meyer-Erlach	W3-5	297	GER 120/130/P.I. OR GER 120/P.I.	
GER 310	Language Practice III	Staff	R3-5	297	GER 210/P.I.	
GER 325	Romanticism	Staff	T3-5	232	GER 220	2nd Yr. students GER 220 & P.I.
GER 410	Language Practice IV	Staff	F2-4	297	GER 310	
GER 420	Prose & Poetry, 1885-1945	Meyer-Erlach				
GER 422	Contemporary Literature	Meyer-Erlach	M12-2	232	GER 220/P.I.	2nd Yr. students GER 220 & P.I.
GER 429E	Reading and Study	Meyer-Erlach			P.I.	
HIS 100E	Europe & the World, 1789-1969	Dafoe	TR9	292		
HIS 100E	Europe & the World, 1789-1969	Mosser	T7:30-9:30 p.m.	287		
HIS 200E (I)	U.S.A., 1607-1972	White	MW11	292		

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
HIS 203E	Latin America	Raby	MW12	10		
HIS 205E (I)	Canada, 1663-1967	Gluek	TR10	2056		
HIS 205E (I)	Canada, 1663-1967	Morton	R7:30- 9:30 p.m.	239A		
HIS 206F	Russia	Johnson	TR2	10		
HIS 302E	Ethnicity in American History	White	M2-4	285	P.I.	
HIS 303E	International Relations, 1870-1960	Dafoe	a)M4-6 b)R4-6	234 279	P.I. P.I.	
HIS 304E	Social Revolution in Latin America	Raby	W4-6	282	P.I.	
HIS 305E	Industrialization & Ideological Res.	La Vigna	R3-5	10	P.I.	
HIS 307E	Can. Hist. from Contemporary Issues	Morton	T7:30- 9:30 p.m.		P.I.	
HIS 308E	Can. Hist.: The Can.-Am. Rel.	Gluek	T2-4	279	P.I.	
HIS 310E	Russian Social History	Johnson	M1-3	234	P.I.	
HIS 312E	The Renaissance	La Vigna	M2-4	241		
HIS 313E	Italy, 1800-1945	La Vigna	W2-4	232		
HIS 315E	Mexico, 1810-1960	Raby	T3-5	270	P.I.	
HIS 338	Empire to Welfare State	Dafoe	T1-3	111		
HIS 364	Canada and War, 1867-1967	Morton	R2-4	279	HIS 205E/POL 100	
HIS 394E (SPA 394)	Spanish History, 1469-1815	Webster	F9-11	23		
HIS 401E	Independent Reading				P.I.	
HIS 444	The French Cont. World, 1871-1962	Mosser	R2-4			
HIS 486 (GRH 212)	Roman Revolution	Elliott	TR11			
INI 202 (I)	Canadian Culture and Society		T6-8 p.m.	ST.	GEORGE CAMPUS	



COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
LIN 200	Linguistics		MW2	1074		
ITA 100(A)	Beginning Italian for Dialect Speakers	Marchese	TRF10	295		
ITA 100(B)	Beg. Ital. for Non-Dialect Speakers		MTR2	295		
ITA 100	Beginning Italian		W7:30-9:30 p.m.	269		
ITA 201E(A)	Continuing Italian - for Dialect or Native Speakers	Marchese	TR11	295	ITA 100A/XIII ITA & P.I.	
ITA 201E(B)	Continuing Italian - for Non-Dialect Speakers	McCormick	TR3	295	ITA 100B/XIII ITA & P.I.	
ITA 202F	Short Stories and Plays	McCormick	TR9	295	ITA 100/XIII ITA & P.I.	
ITA 300E	Italian Literature	McCormick	M3-5	297	ITA 201E/P.I.	
ITA 310ES	Dante's Inferno	Mazzotta	TR12		ITA 201E/P.I.	
ITA 311EF	The Decameron of Boccaccio	Mazzotta	TR12	295	ITA 201E/P.I.	
ITA 313EF	Petrarca	Mazzotta	TR10	5	ITA 201E	
ITA 340EY	Creative Italian I	Marchese	M10	295	ITA 201E (A/B)	
ITA 360E	20th Century Novel and Drama		MW1	295	ITA 201E/P.I.	
LTR 192	The Rogue in Literature	Hegy1	TR3	23		
APM 241S	Mathematical Models	Fantham	MW12		MAT 244F	
APM 251E	Applied Mathematics I	Jurdjevic	TR2	1086	MAT 135	MAT 235 /P.I.
APM 351E	Applied Mathematics II	Lakin	MWF3	234	APM 246ES/251E	
CSC 108Y	Computer Programming	Metzger	F9-11	239A		
CSC 148F	Intro. to Computing	Crawford	MW11	245	XIII MATH A/B	MAT 135

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
CSC 158S	Computer Applications	Crawford	MW11		CSC 148F	
CSC 236S	Numerical Methods	Crawford	MW12		CSC 108F, MAT 135E	
CSC 248F	Prog. Lang. and Applications	Metzger	TR9	1086	CSC 108F, MAT 135E	
CSC 258S	Language Programming	Crawford	MW1		CSC 108F, MAT 135E	
CSC 368S	Language Processors	Metzger	MW11		CSC 258F & CSC 248S	
MAT 110EF	Introductory Calculus	Trott	TR12	2059		
MAT 110ES	Introductory Calculus	Trott	TR1			
MAT 110ES	Introductory Calculus	Trott	M7:30-9:30 p.m.	279		
MAT 120EF	Finite Mathematics	Trott	TR1	245		
MAT 120EF	Finite Mathematics	LeBel	M7:30-9:30 p.m.	279		
MAT 120ES	Finite Mathematics	Trott	TR12			
MAT 135E	Calculus & Linear Algebra I	Trott	TR10	2059	XIII MAT A (75%) & B & P.I. If no XIII MAT B student must take 120EF.	
MAT 140E	Abstract Mathematics	LeBel	TR11	241	XIII MAT A & B & P.I. If no XIII MAT B student must take 120EF.	
MAT 204EF (I) (PHL 250F)	Modern Symbolic Logic	Urquhart	TR1	2056		
MAT 209ES (I) (PHL 353S)	Set Theory	LeBel	TR1	2056	MAT 204EF	
MAT 235E	Calculus & Linear Algebra II	LeBel	TR10	241	MAT 135E	
MAT 240E	Algebra	Jurdjevic	TR11	1096	MAT 140E	
MAT 244F	Differential Equations	Fantham	MW12	241	MAT 135E	
MAT 320EF	Topics in Mathematics I	Tall	TR1	9		
MAT 325ES	Topics in Mathematics II	Tall	TR1		P.I.	



COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
MAT 335E	Vector Calculus	Bloom	TR10	10	MAT 235E	
MAT 399Y	Independent Work				P.I.	
STA 202EF (I) (GGR 302F, PSY 200F)	Statistics	Andrews	MW9	2059		
STA 232	Introduction to Statistics	Mather	MW9	2056	MAT 135E/110 & 120	
STA 332F	Experimental Design	Andrews	TR9	4003	STA 232	
STA 342S	Regression Analysis	Fu	TR9	4003	STA 232	
MUS 100	Music Literature	Jones	TR2	241		
PHL 100	Introduction to Philosophy	a) Rosenthal b) Huggett c) Staff	TR12 MW10 MW11	287 245 241		
PHL 100	Introduction to Philosophy	Huggett	W7:30- 9:30 p.m.	241		
PHL 200S	Reason and Morality	Chastain	TR9			
PHL 202F	Aesthetics	Rosenthal	TR10	111		
PHL 204S	Literature & Philosophy	Cassin	WF12			
PHL 204S	Literature & Philosophy	Harvey	R7:30- 9:30 p.m.	279		
PHL 205F	Contemporary Social Issues	Cassin	W1-3	287		
PHL 210F	The State and the Citizen	Schiller	MW1	1092		
PHL 213S	University and Society	Cassin	TR1			
PHL 216F	Deviance and Abnormality	Rosenthal	MW12	287		
PHL 220F	Belief, Knowledge and Truth	Urchhart	R7:30- 9:30 p.m.	279		
PHL 220S	Belief, Knowledge and Truth	Rosenthal	F12-2			
PHL 230F	Existentialism	Cassin	R3-5	285		

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
PHL 232S	Bertrand Russell	Urquhart	M3-5			
PHL 240F (I)	Birth of Philosophy I: To Plato	Huggett	TR10	287		
PHL 241S (I)	Birth of Philosophy II: Aristotle	Huggett	TR10	287		
PHL 243F	Age of Reason	Urquhart	TR2	23		
PHL 244S	Age of Enlightenment	Chastain	TR2	23		
PHL 250F (I) (MAT 204EF)	Modern Symbolic Logic	Urquhart	TR1	2056		
PHL 261S	Philosophy of Religion	Nageotte	T7:30- 9:30 p.m.	239		
PHL 270F	Miracles and Mysticism	Canfield	T7:30- 9:30 p.m.	239		
PHL 280F	Persons, Minds and Bodies	Chastain	F2-4	232		
PHL 281S	Philosophical Psychology	Cassin	F2-4	232		
PHL 282S	Language and Communication	Urquhart	TR3			
PHL 283S	Analysis of Propaganda	Rosenthal	TR4			
PHL 291S	Film Aesthetics	Canfield	T11-1/ F11-1			
PHL 312S	Philosophy of Law	Schiller	MW1	1092	2 half courses in PHL/Soc.Sc. PHL 210 rec.	
PHL 314S	Philosophy of Social Science	Urquhart	MW12	287	2 half courses in Soc.Sc./P.I.	
PHL 315S	Philosophy of History	Chastain	TR2		2 half courses in HIS/PHL	
PHL 353S (I) (MAT 209ES)	Set Theory	Tall	TR1	2056	PHL 250F/MAT 204EF	
PHL 396F	Epistemology	Chastain	W3-5	1	3 half courses in PHL. PHL 220S rec.	
PHL 396S	Tutorial in Epistemology	Canfield	W3-5	268	3 half courses in PHL. PHL 220S rec.	
PHY 110	World of Physics	Meincke	MW9 Lab.M/T/W2-5	2059	XIII PHY & MAT/P.I.	MAT 135E/ 110EF & 120ES
PHY 120E	Physical Mechanics	Dunlop	MW11 Lab.W/F2-5	1092	XIII PHY & MAT A	MAT 135E

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
PHY 220E	Electromagnetism	Stegeman	MMF9 Lab. M/W/F2-4	1074	PHY 110/120E, MAT 135E/110EF, 120ES/P.I.	
PHY 221EF	Thermal Physics	Dunlop	T11, W2 Lab. M2-5	1087	PHY 120E/P.I.	APM 251/ MAT 235, 244F
PHY 222ES	Waves and Physical Optics		T11, F10 Lab.		PHY 120E/P.I.	PHY 220E
PHY 226E	Electronics	Code	TF1 Lab. T/F2-4	1086	PHY 110/120E; MAT 110EF/135E/P.I.	
PHY 301E	Quantum Physics	Vosko	MF10	1079	PHY 220E, APM 246ES & MAT 244F/APM 251E	
PHY 302E	Electromagnetic Theory	Wong	MMF11	1087	PHY 220E, MAT 244F, APM 246ES/APM 251E	APM 351E
PHY 311E	Classical Theoretical Physics	Taylor	MM2	1092	PHY 220E, MAT 244F, APM 246ES/APM 251E	APM 351E
PHY 313E	Advanced Physics Laboratory	Staff	T2-5	2048	PHY 220E	
PHY 400E	Quantum Mechanics	Wong	MM3	4022	PHY 301E	
PHY 401EF	Statistical Mechanics		TF11	4022	PHY 221EF & 301E	
PHY 403EF	Nuclear Physics	Taylor	MF9	4022	PHY 301E (BIO 423 students need P.I.)	
PHY 405ES	Solid State Physics		TF11	4022	PHY 301E	
PHY 406ES	Quantum Optics		MF9	4022	PHY 301E	
POL 100	Intro. to Canadian Politics	Smiley	TR11	245		
POL 101	Intro. to Political Science	Kontos	TR1	241		
POL 104	Foreign Political Institutions	Smith	TR3	241		
POL 200	History of Political Thought	Fenn	TR10	285		
POL 203	Politics & Government - U.S.A.	Heinricks	MF11	10		
POL 204	U.S.S.R. Government & Politics	Day	TR11	10		
POL 208	International Relations	Kovrig	M1-3	282		
POL 208	International Relations	Kovrig	R7:30- 9:30 p.m.	297		

COURSE CODE	TITLE	INSTRUCTOR	TIME/TABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
POL 209 (I)	Science, Tech. and Public Policy	Lakoff	R3-5	26		
POL 303F	Politics and Government of the United Kingdom	Day	W3-5	269		
POL 304	Politics of the Third World	Scott	R1-3			
POL 323	Topics in Canadian Politics	Peers	F3-5	282	POL 100/P.I.	
POL 327	Comparative Foreign Policy	Gregor	T11-1	279		
POL 327	Comparative Foreign Policy	Gregor	W7:30-9:30 p.m.	295		
POL 329S	Marxism - Leninism	Day	W3-5		P.I.	
POL 340	Undergraduate Thesis	Staff			P.I.	
POL 400F	20th Century Political Thought	Kontos	TR10	23	P.I.	
POL 411F	Canadian Federalism	Smiley	R12-2	5	POL 100/P.I.	
POL 413S	Provincial and Local Government		R2-4		POL 100/P.I.	
POL 415	Seminar in International Politics	Kovrig & Barros		266	POL 208/327/328	
PRT 200EF	Beginning Portuguese, Part II	Webster	T6-8	234	PRT 200EF, Part I (1971-72 Calendar)	
PSY 100	Introductory Psychology	a)Krames & Pliner b)Craik, Goder & Rosenbaum	MW12 TR1	292 2059		
PSY 100	Introductory Psychology	c)Spigel & Blankstein	TR10	292		
PSY 200F (STA 202EF)	Statistics and Research Design I	Craik(F) Alloway(S)	R7:30-9:30 p.m.	245		
PSY 201S	Statistics and Research Design II	Drillings	MW9	2059		
PSY 203EF	Introduction to Social Psychology	Drillings a)Pliner b)Rosenbaum	R12-2,F2 WWF1 WWF2	2059 2059	PSY 200F/eq. PSY 100 PSY 100	



COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
PSY 204ES	Personality	a)Pliner b)Rosenbaum	MWF1 MWF2		PSY 100 PSY 100	
PSY 208EF	Sensory & Perceptual Process	Spigel	MWF10	292	PSY 100	
PSY 208EF	Sensory & Perceptual Process	Spigel	T7:30- 9:30 p.m.	239A	PSY 100	
PSY 209ES	Physiological psychology	Moscovitch	MWF10		PSY 100	
PSY 213EF	Comparative Psychology	Krames	MWF10	26	PSY 100	
PSY 216ES	Experimental Design and Theory	Alloway	TRF11		PSY 100	
PSY 216ES	Experimental Design and Theory	Spigel	T7:30- 9:30 p.m.	239A	PSY 100	
PSY 218EF	Classical & Instrumental Conditioning	Alloway	MWF3	2056	PSY 100	
PSY 218EF	Classical & Instrumental Conditioning	Alloway	M7:30- 9:30 p.m.	245	PSY 100	
PSY 310EF	Individual Project	Staff			PSY 200F, 201S, Lab. course, P.I.	
PSY 311ES	Individual Project	Staff			PSY 200F, 201S, Lab. course, P.I.	
PSY 326ES	Abnormal Psychology	Blankstein	MWF12		PSY 204ES/218EF & P.I.	
PSY 326ES	Abnormal Psychology	Blankstein	M7:30- 9:30 p.m.	245	PSY 204ES/218EF & P.I.	
PSY 350EF	Human Memory and Learning	Craik	MTR3	1074	PSY 100 (PSY 216ES rec.)	
PSY 350ES	Human Memory and Learning	Craik	R7:30- 9:30 p.m.	1076	PSY 100 (PSY 216ES rec.)	
PSY 351ES	Lab. in Human Memory and Learning	Craik	M1-5		PSY 350EF/214EF(71-72) (PSY 200F, 201S, 216ES rec.)	
PSY 353ES	Lab. in Sensory & Perceptual Proc.	Drillings	T1-5		PSY 208EF	PSY 200F & 201S rec.
PSY 355ES	Lab. in Psychobiology	Moscovitch			PSY 200F, 201S, 209ES/213EF	
PSY 362ES	Animal Behaviour and Ethology	Krames	MWF11		PSY 100, 213EF (PSY 200F rec.) & 2nd yr. st. P.I.	
PSY 366ES	Social Psychology: Social Perception	Rosenbaum	T12, F12-2		PSY 203EF & P.I.	
PSY 368EF	Dev. Psychology: Childhood	Cortier	MWF9	245	PSY 218EF rec. & P.I.	
PSY 368EF	Dev. Psychology: Childhood	Cortier	M7:30- 9:30 p.m.	245	PSY 218EF rec. & P.I.	

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
PSY 368ES	Child Psychology	Cortez	W7:30-9:30 p.m.	245	PSY 218EF rec. & P.I.	
PSY 371EF	Adv. Physiological Psychology	Moscovitch	MWF10	1076	PSY 209ES & P.I.	
PSY 372EF	Psychophysiology	Blankstein	W2-5	1076	PSY 218EF & P.I.	
PSY 373ES	Comparative Psychology of Learning	Alloway	MWF9		PSY 218EF & P.I.	
PSY 380ES	Developmental Psychology: Early	Cortez	MWF11		PSY 368EF & P.I.	
PSY 400E	Thesis Research					
PSY 405E	Current Issues in Psychology	Staff	T2-5	1076	P.I.	
PSY 410ES	Topics in Developmental Psychology	Staff			P.I.	
PSY 412EF	Individual Project	Staff			P.I.	
PSY 413ES	Individual Project	Staff			P.I.	
PSY 430EF	Topics in Comparative Psychology	Alloway & Morris			P.I.	
PSY 445ES	Topics in Motivation & Arousal				P.I.	
REL 100	Religious Traditions, East & West	Nigosian	M3-5,F3	245		
REL 100	Religious Traditions, East & West	Nigosian	W7:30-9:30 p.m.	239		
REL 203	Religion & Imaginative Literature	a)Lavelle b)Lavelle	MW11 TR11	269 270		
REL 230E (I)	Roles of Religion in Human Dev.	Elmer	TRF3	269		
REL 230E (I)	Roles of Religion in Human Dev.	Elmer	W7:30-9:30 p.m.	295		
REL 375E	Comm. & Religious Consciousness	Schmidt	MWF12			
SLA 100	Introductory Russian	Lantz	a)M12-2 W1,F12	23 26		
"	"	Lantz	b)M2-4 W2,F2-4	23 295		

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
SLA 110E	Slavic Culture & Literature	Shneidman	T1 F9	5 26		
SLA 210 (I)	19th Century Russian Literature	Lantz	W3-5 F2			
SLA 220 (I)	Intermediate Russian	Lantz & Shneidman	M3-5 R3-5	282	SLA 100/XIII Russian	
SLA 310	20th Century Russian Literature	Lantz	T1-3	282		
SLA 312	Tolstoy and Dostoevsky	Shneidman	M3-5	270	SLA lit. course	
SLA 320	Advanced Russian	Shneidman	MW10-12	23	SLA 220/eq.	
SOC 101	Introduction to Sociology	a) c) d) Spencer	MW11 MW3 TR2	239 287 287		
SOC 101	Introduction to Sociology		M7:30- 9:30 p.m.	287		
SOC 201	Methods of Social Research	Kalbach	TR3	1087		
SOC 202	Structure of Interpersonal Relations	Kervin	MWF11	239A		
SOC 205	Urban Sociology	Breslauer	R2-5	1076	SOC 101	
SOC 212	Sociology of Deviance		a) MW1 F2	1096 1079		
"	"		b) W2-4, F2	1086		
SOC 212	Sociology of Deviance		R7:30- 9:30 p.m.	271		
SOC 213E	Social Stratification	Kervin	MWF9	269		
SOC 214E	Sociology of the Family	Rosen	TR1	287		
SOC 214E	Sociology of the Family		W7:30- 9:30 p.m.	297		
SOC 303	Canadian Society	Felt	MWF1	1096		
SOC 309	Mass Communication in Cdn. Society	Powell	M2-5	1087	1 SOC course	
SOC 311	Sociology of Education	Spencer	MTR11	1094		
SOC 312EF	Population and Society	Kalbach	MTR10	282		

COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO-REQUISITE
SOC 313	Sociological Theory	Lorion	R7:30-9:30 p.m.	282		
SOC 321E	Industrial Society	Felt	MWF10	269		
SOC 324E	Political Sociology	Walker	MWF1			
SOC 327E	Comparative Elites	Bennett	M7:30-9:30 p.m.	269	SOC 101	
SOC 328ES	Environmental Sociology	Breslauer	M2-5		SOC 101, 205E/P.I.	
SOC 390EY	Individual Studies I	Staff			2 200 SOC courses & P.I.	
SOC 392EY	Individual Studies II	Staff			2 200 SOC courses & P.I.	
SPA 100E	Beginning Spanish	a) Webster b) Hegvi c) Scarth	MWF9 MWF12 M12 W12 F12	232 295 282 232 282		
SPA 100E	Beginning Spanish	Hegvi	T7:30-9:30 p.m.	271		
SPA 191	Spanish Civilization & Culture	Scarth	TR4	5		
SPA 192	Latin Am. Civilization & Culture	Neglia	W2-4	282		
SPA 220E (I)	Intermediate Grammar & Composition	a) Romanschyn	TR3	23	SPA 100/XIII SPA/eq. & P.I.	
		b) Romanschyn	TR4	234		
SPA 222Y (I)	Conversational Spanish	Neglia	F10	234	SPA 100/XIII SPA/eq. & P.I.	
SPA 246EF (I)	Intro. to Modern Spanish Drama	Scarth	TR1	234	SPA 100/XIII SPA/eq.	
SPA 257S (I)	Modern Spanish Prose	Scarth	TR1		SPA 100/XIII SPA/eq.	
SPA 320EY	Creative Spanish	Hegvi	F12	10	SPA 220E/eq. & P.I.	
SPA 343EF	Golden Age Drama	Hegvi	R12-2	232	SPA 220E, 1 SPA course 200/300, P.I.	
SPA 346ES	Modern Spanish Drama	Neglia	R12-2		SPA 220E/eq.	



COURSE CODE	TITLE	INSTRUCTOR	TIMETABLE	ROOM	PRE-REQUISITE	CO- REQUISITE
SPA 366ES	Modern Spanish American Poetry	Neglia	MW12		1 SPA 200 series course/eq.	
SPA 385F SPA 394 (HIS 394E)	Spanish American Story and Essay  Spanish History, 1469-1815	Neglia  Webster	MW12  F9-11	26  23	1 SPA 200 series course/eq.  P.I.	
SPA 420ES	Advanced Composition & Stylistics	Webster	T6-8 p.m.		SPA 320EY/eq.& P.I.	
SPA 421EY	Independent Language Study	Webster			SPA 420EY & P.I.	
SUR 100F	Introduction to Surveying	Gracie	TR12 Lab.T2-5/W2-5	1094 1076	XIII Maths A/ Maths 1 & 2	
SUR 210F	Geodesy	Gunn	TR9 Lab.M2-4		MAT 135E, PHY 110/ 120E	
	ALL ROOMS IN THE MAIN BUILDING					
	HAVE 4 DIGITS.					
	ALL ROOMS IN THE PRELIMINARY					
	BUILDING HAVE 3 DIGITS.					
	ALL ROOMS IN THE PORTABLES					
	(HUMANITIES HUT) HAVE 1 OR 2 DIGITS					

ROUTE NO. 2 - ST. GEORGE SERVICE  
VIA Q. E. WAY

This service is for inter-campus, academic requirements.  
 Please commute via Subway and College Buses on Route #1.

WESTBOUND

	A. M.				P. M.			
	7:55	8:00	10:15	11:15	12:15	1:15	2:15	3:15
Convocation Hall								4:15
Erindale College	8:35	8:40	10:55	11:55	12:55	1:55	2:55	4:55
Erindale College	7:15	9:15	10:15	11:15	12:15	1:15	2:15	3:15
Convocation Hall	7:55	9:55	10:55	11:55	12:55	1:55	2:55	3:55
								5:15
								5:55
								6:00

EASTBOUND

ROUTE NO. 3 - CLARKSON "GO" STATION SERVICE  
VIA ERIN MILLS PARKWAY

Departs "GO" Station  
A.M.  
 8:20

Arrives Erindale College 8:35

Departs Erindale College  
P.M.  
 5:10

Arrives "GO" Station 5:25

NOTICE

1. Please refrain from smoking.
2. Animals are not permitted on buses.
3. Keep your bus clean.
4. Passengers may board and leave buses only at scheduled stop.

THANK YOU FOR YOUR CO-OPERATION.

NOTE:

Request stops at Sheridan Mall  
 and Truscott Drive.

**BRINDALE COLLEGE - BUS SCHEDULE**  
**MONDAY TO FRIDAY - EFFECTIVE SEPTEMBER 11, 1972**

**ROUTE NO. 1 - TO ISLINGTON SUBWAY STATION**  
**VIA EITHER DUNDAS ST. OR O.E.WAY (EXPRESS)**

	A.M.												P.M.													
	8:05	8:10	8:15	8:20	9:05	9:10	9:15	9:20	9:25	10:05	10:15	10:25	11:45	12:45	1:45	2:40	2:45	3:40	3:45	4:40	4:45	5:45	6:45	10:45	11:45*	
Islington	↑	↑	↑	↑	↑	8:17	↑	9:12	↑	10:07	10:17	10:27	11:47	12:45	1:45	↑	2:45	↑	3:47	↑	4:47	↑	5:47	6:47	10:47	11:47
Six Points	↑	↑	↑	↑	↑	8:22	↑	9:17	↑	10:11	10:21	10:31	11:51	12:51	1:51	↑	2:51	↑	3:51	↑	4:52	↑	5:51	6:51	10:51	11:51
Cloverdale Mall	↑	↑	↑	↑	↑	8:29	Q.E. EXP	9:24	Q.E. EXP	10:17	10:27	10:37	11:57	12:57	1:57	Q.E. EXP	2:57	Q.E. EXP	3:57	↑	4:59	Q.E. EXP	5:57	6:57	10:57	11:57
Dixie Rd.	NONSTOP	EXPRESS	↑	↑	↑	8:33	↑	9:26	↑	10:20	10:30	10:40	12:00	1:00	2:00	↑	3:00	↑	4:00	↑	5:03	↑	6:00	7:00	11:00	12:00
Grenville	↑	↑	↑	↑	↑	8:37	↑	9:32	↑	10:23	10:33	10:43	12:03	1:03	2:03	↑	3:03	↑	4:03	↑	5:07	↑	6:03	7:03	11:03	12:03
Highway #10	↑	↑	↑	↑	↑	8:43	↑	9:38	↑	10:28	10:38	10:48	12:08	1:08	2:08	↑	3:08	↑	4:08	↑	5:13	↑	6:08	7:08	11:10	12:10
Er.Woodl's.	↑	↑	↑	↑	↑	8:45	↑	9:40	↑	10:30	10:40	10:50	12:10	1:10	2:10	↑	3:10	↑	4:10	↑	5:05	↑	6:10	7:10	11:12	12:12*
Er.College	8:30	8:35	8:40	8:45	9:30	9:40	9:40	9:50	9:50	10:30	10:40	10:50	12:10	1:10	2:10	3:05	3:10	4:05	4:10	5:05	5:15	5:20	6:10	7:10	11:12	12:12*

WESTBOUND

EASTBOUND

**EASTBOUND**

	A.M.												P.M.											
Er.College	8:35	8:40	8:45	8:50	9:35	9:45	9:55	11:15	12:15	1:15	2:10	2:15	3:10	3:15	4:10	4:15	4:20	5:15	5:20	5:25	6:15	7:15	10:15	11:15*
Er.Woodl's.	↑	↑	↑	8:52	↑	↑	9:57	11:17	12:17	1:17	2:17	↑	↑	3:17	↑	4:22	↑	5:22	5:27	6:17	7:17	10:17	11:17	
Highway #10	↑	↑	↑	8:58	↑	↑	10:02	11:22	12:22	1:22	2:22	↑	↑	3:22	↑	4:28	↑	5:28	5:33	6:22	7:22	10:22	11:22	
Grenville	↑	↑	↑	9:02	Q.E. EXP	Q.E. EXP	10:05	11:25	12:25	1:25	Q.E. EXP	2:25	Q.E. EXP	3:25	Q.E. EXP	4:32	Q.E. EXP	5:32	5:37	6:25	7:25	10:25	11:25	
Dixie Rd.	↑	↑	↑	9:06	↑	↑	10:08	11:28	12:28	1:28	2:28	↑	↑	3:28	↑	4:36	↑	5:36	5:41	6:28	7:28	10:28	11:28	
Cloverdale Mall	↑	↑	↑	9:13	↑	↑	10:14	11:34	12:34	1:34	2:34	↑	↑	3:34	↑	4:43	↑	5:43	5:48	6:34	7:34	10:34	11:34	
Six Points	↑	↑	↑	9:18	↑	↑	10:18	11:38	12:38	1:38	2:38	↑	↑	3:38	↑	4:48	↑	5:48	5:53	6:38	7:38	10:38	11:38	
Islington	9:00	9:05	9:10	9:15	9:20	10:00	10:20	11:40	12:40	1:40	2:35	2:40	3:35	3:40	4:35	4:40	4:50	5:40	5:50	6:40	7:40	10:40	11:40*	

\* Not on Fridays

\* Not on Fridays







